



FEC 2023
29th IAEA Fusion Energy Conference

29TH IAEA FUSION ENERGY CONFERENCE

16–21 October 2023

London, United Kingdom of
Great Britain and Northern Ireland



#Fusion2023



CN-316
www.iaea.org/meetings

Organized by the



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International Atomic Energy Agency

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through the



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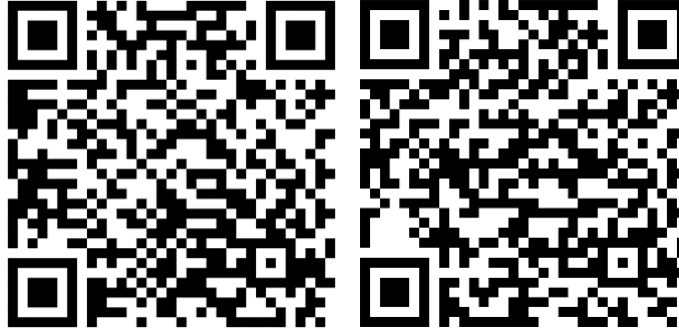


**29th IAEA
Fusion Energy Conference
16th-21st October 2023
London, UK**

**Programme & Book of Abstracts &
Conference Material**

Mobile Conference Application QR Codes

Scan the relevant QR code to download the IAEA FEC conference application.



[Apple App Store](#)

[Google Play Store](#)

Mobile Conference App for smartphones and tablets

The IAEA Conferences and Meetings App provides a one-stop access to information on the Conference, exhibitions and scheduled side events. The app also allows users to put together their own personalized schedule of events. Via this app, participants can view contributed papers and the latest conference programme, message other participants, and view PowerPoint presentations released after the event. Participants will receive an email inviting them to register for the app approximately one week before the conference.

For iPhone or iPad users, get your free download through the [App Store](#); those with Android devices can visit the [Google Play Store](#).

Introduction

The International Atomic Energy Agency (IAEA) fosters the exchange of scientific and technical results in nuclear fusion research and development through its series of Fusion Energy Conferences.

The 29th Fusion Energy Conference (FEC 2023) aims to provide a forum for the discussion of key physics and technology issues as well as innovative concepts of direct relevance to the use of nuclear fusion as a future source of energy.

According to the IAEA's [Fusion Device Information System](#) (FusDIS), as of 2023, there are almost 130 experimental fusion devices and testing facilities operating, under construction or being planned, and a dozen of demonstration plant or pilot plant designs under development. Driven by recent scientific and technical advances, a vibrant private sector and the climate crisis, attention is switching to the remaining challenges of demonstrating the technological feasibility of fusion power as well as the safe and economic viability of this energy source.

The scope of FEC 2023 is, therefore, intended to reflect the priorities of this new era in fusion energy research, technology development and preparation to industrial deployment. The conference aims to serve as a platform for sharing the results of research and development efforts in both national and international fusion programmes that have been shaped by these new priorities, and to thereby help in pinpointing worldwide advances in fusion theory, experiments, technology, engineering, materials, advanced concepts, safety, socio-economics and preparation to industrial deployment. Furthermore, the conference will also set these results against the backdrop of the requirements for a net energy-producing fusion device and a fusion power plant in general and will thus help in defining the way forward.

With the participation of international organizations such as the ITER International Fusion Energy Organization and the European Atomic Energy Community (Euratom), as well as the collaboration of more than 40 countries and a great number of research institutes and organisations, including those working on smaller devices, it is expected that this conference will, like previous conferences in the series, serve to identify the possibilities and means for continuous and effective international collaboration in this area.

The [29th IAEA Fusion Energy Conference](#) is being organized by the [IAEA](#) in cooperation with the Government of the United Kingdom through the [United Kingdom Atomic Energy Authority \(UKAEA\)](#). [Previous conferences in this series](#) were held in [Salzburg, Austria \(1961\)](#), [Culham, United Kingdom \(1965\)](#), [Novosibirsk, Russian Federation \(1968\)](#), [Madison, United States of America \(1971\)](#), [Tokyo, Japan \(1974\)](#), [Berchtesgaden, Germany \(1976\)](#), [Innsbruck, Austria \(1978\)](#), [Brussels, Belgium \(1980\)](#), [Baltimore, United States of America \(1982\)](#), [London, United Kingdom \(1984\)](#), [Kyoto, Japan \(1986\)](#), [Nice, France \(1988\)](#), [Washington DC, United States of America \(1990\)](#), [Würzburg, Germany \(1992\)](#), [Seville, Spain \(1994\)](#), [Montreal, Canada \(1996\)](#), [Yokohama, Japan \(1998\)](#), [Sorrento, Italy \(2000\)](#), [Lyon, France \(2002\)](#), [Vilamoura, Spain \(2004\)](#), [Chengdu, China \(2006\)](#), [Geneva, Switzerland \(2008\)](#), [Daejeon, Republic of Korea \(2010\)](#), [San Diego, United States of America \(2012\)](#), [St. Petersburg, Russian Federation \(2014\)](#), [Kyoto, Japan \(2016\)](#), [Ahmedabad, India \(2018\)](#), [Nice, France \(postponed from 2020 to 2021 and held online because of the global COVID-19 pandemic\)](#).

Programme Committee

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United Kingdom Atomic Energy Authority
Culham Science Centre, UK

Local Team support

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Publications and Proceedings

Presentation and Abstract Book

This book contains all abstracts accepted for the conference. Abstracts have been edited for style uniformity. The views expressed remain the responsibility of the named authors. No responsibility is held by the organizers for any material reproduced, or linked, in this book.

IAEA Publications

All IAEA publications may be ordered from the

Sales and Promotion Unit,

International Atomic Energy Agency,

P.O. Box 100, A-1400 Vienna,

Austria Fax: +43 1 2600-29302

sales.publications@iaea.org

www.iaea.org/Publications/index.html

Conference Material

Contributed papers will be published electronically on the [IAEA Fusion Portal](#) under the FEC dedicated webpage as a part of the FEC material.

Nuclear Fusion Journal

Participants have been invited to submit their paper for possible publication in the IAEA journal, [Nuclear Fusion](#). If your institution does not have access to the journal, pdfs of these FEC derived articles can be requested from nf@iaea.org.

Links on the abstract pages direct the reader to both the pre-print and the Nuclear Fusion journal, respectively.

Participation in an IAEA Scientific Meeting

Governments of Member States and those organizations whose activities are relevant to the meeting subject matter are invited to designate participants in the IAEA scientific conferences and symposia. In addition, the IAEA itself may invite a limited number of scientists as invited speakers. Only participants designated or invited in this way are entitled to present papers and take part in the discussions.

Representatives of the press, radio, television or other information media and members of the public, the latter as “observers”, may also be authorized to attend, but without the right to take part in the proceedings.

Scientists interested in participating in any of the IAEA meetings should request information from the Government authorities of their own countries, in most cases the Ministry of Foreign Affairs or national atomic energy authority.

Working Language & Resolutions

Working Language: English. No simultaneous translation will be provided.

Resolutions: No resolutions may be submitted for consideration on any subject; no votes will be taken.

Information for Participants

The [conference website](#) contains links to many helpful guides. Notably, the [Indico](#) conference system is used for all correspondence concerning contributions.

Overview of Contributions

This book contains all abstracts accepted by the FEC programme committee. Note that abstracts have been edited for style uniformity.

Overview of Contributions (as of October 10, 2023)

1 Keynote presentations

19 Overview talks

100 Regular talks

2 Rapporteur and Rapporteured talks

36 Overview posters

774 Regular posters

2 Post deadline talks

15 Post deadline poster

Overview posters will be exhibited during the entire conference. All oral presentations will also be displayed as posters according to the programme.

Rapporteur papers are identified by the letter "a" after the paper number. Rapporteured papers are identified by the letters "b" or "c" after the paper number.

Participation in an IAEA Scientific Meeting

Topics

OV – Overview

Programme overview

EX – Magnetic Fusion Experiments including Validation

Experimental plasma physics including validation

Keywords (indicative only and not limiting): toroidal and helical configurations; confinement; stability; performance and control; wave-plasma interactions; current drive; heating; energetic particles; plasma material interactions; divertors; limiters; scrape-off-layer

EX-C – Confinement

Confinement and transport, including scenario development & L-H

EX-S - Stability Stability, including disruptions, runaways, control, mitigation & consequences

EX-W - Waves

Plasma waves and energetic particle interactions

EX-D - Divertor

Divertor/SOL physics and general power handling

EX-E - Edge Transient Control

Edge transients, ELMs, mitigation & benign/no ELM scenarios

EX-M - Material Interactions

Materials-plasma interactions

EX-P - Pedestal , Core-edge

Pedestal physics and core-edge integration

EX-H - Heating & Current Drive

Heating and current drive physics, antenna-plasma interactions

TH - Magnetic Fusion Theory and Simulation

Theory and simulation

TH-C - Confinement

Confinement and transport, including scenario development & L-H

TH-S - Stability

Stability, including disruptions, runaways, control, mitigation & consequences

TH-W - Waves

Plasma waves and energetic particle interactions

TH-D - Divertor

Divertor/SOL physics and general power handling

TH-E - Edge Transient Control

Edge transients, ELMs, mitigation & benign/no ELM scenarios

TH-M - Material Interactions

Materials-plasma interactions

TH-P - Pedestal , Core-edge

Pedestal physics and core-edge integration

TH-H - Heating & Current Drive

Heating and current drive physics, antenna-plasma interactions

TEC - Fusion Energy Technology

Not plasma interaction

Keywords (indicative only and not limiting): materials; magnets; engineering; system integration; neutron sources; radiation; transport and activation; power plant design; safety; maintenance and remote handling; socio-economic and environmental aspects

TEC-MTL - Material Developments

Material Developments

TEC-IVC - In Vessel Components

TEC-HCD - Heating & Current Drive

Heating & Current Drive

TEC-ITR - ITER Technology

ITER Technology

TEC-FNT - Fusion Nuclear Technology: Includes nuclear science & tech research devices Fusion Nuclear Technology: Includes nuclear science & tech research devices

TEC-LS - Licensing and Safety

Licensing and Safety

TEC-SEE - Socio-economic and Environment

Socio-economic and Environment

TEC-NSM - Next Step Machine designs (DEMOS, Pilots, etc.), enabling devices and roadmaps

Next Step Machine designs (DEMOS, Pilots, etc.), enabling devices and roadmaps.

IFE - Inertial Fusion Energy

Keywords (indicative only and not limiting): experiments, theory and modelling, materials, power plant design, targets, drivers.

IAC - Innovative and Alternative Fusion Concepts

Keywords (indicative only and not limiting): linear configuration; non-magnetic configurations; hybrid concepts; fusors

PWF - Pathway to Fusion Special Event (Saturday sessions)

Pathways to Fusion Special Event (Saturday sessions).

Scope: fusion pathways, demonstration devices, timelines, engineering, integration, supporting facilities, risk, partnership, commercialization with an emphasis on private sector developments alongside publicly funded plans. Comprising: morning posters, afternoon quick fire talks 12-15 mins each, coffee time networking, exhibit hall, panel debate with audience Q&A

Conference Location

The 29th Fusion Energy Conference (FEC2023) will be held at the [Queen Elizabeth II Centre](#) in London, United Kingdom. The Conference will be organized by the IAEA and hosted by the Government of the United Kingdom through the United Kingdom Atomic Energy Authority (UKAEA).

Timetable FEC 2023

Day Date	Monday October 16, 2023	Day Date	Tuesday October 17, 2023	Wednesday October 18, 2023	Thursday October 19, 2023	Friday October 20, 2023	Day Date	Saturday October 21, 2023					
08:30-10:15	<i>OV/1</i> Opening -&- High Level Session	08:30-10:10	<i>EX/1 & TH/1</i> Core Edge	<i>P1</i> Posters	<i>TH/3</i> Edge & Divertor	<i>P3</i> Posters	<i>EX/3 & TH/4</i> Turbulence	<i>P5</i> Posters	<i>EX/6 & TH/7</i> 3D Physics	<i>P7</i> Posters	08:30-10:10	<i>EX/8</i> Exhaust	<i>P9</i> Posters
10:15-10:45	Coffee Break	10:10-10:40	Coffee Break										
10:45-12:45	<i>OV/1</i> Overview: Burning Plasmas and Long Pulse	10:40-12:20	<i>TH/2</i> Fast Ions	<i>P1</i> Posters	<i>IFE/1</i> Inertial Fusion Energy	<i>P3</i> Posters	<i>TH/5</i> <i>IAC/1</i> <i>EX/4</i> Control	<i>P5</i> Posters	<i>TEC/4</i> Next steps and H & CD	<i>P7</i> Posters	10:40-12:40	<i>TH/9</i> Core Transport	<i>P9</i> Posters
12:45-14:00	Lunch	12:20-14:00	Lunch										
		13:00-14:00	Women in Fusion		Inertial Fusion Energy		Energy Justice and Social Licensing		Public Engagement		13:10-14:00	IAEA Session	
14:00-16:05	<i>OV/2</i> Overview: Tokamak	14:00-16:05	<i>OV/4</i> Overview: Technology, Long Pulse, Science	<i>P2</i> Posters	<i>TEC/2</i> In Vessel Component + Heating	<i>P4</i> Posters	<i>EX/5 & TH/6</i> Scenarios I	<i>P6</i> Posters	<i>TH/8 & IAC/2</i> MHD & Disruptions	<i>P8</i> Posters	14:00-16:35	<i>PWF</i> Pathways to Fusion	
16:05-16:30	Coffee Break												
16:30-18:30	<i>OV/3</i> Overview: Stellarator, ST, Private	16:30-18:30	<i>TEC/1</i> ITER Technology	<i>P2</i> Posters	<i>EX/2</i> Pedestal	<i>P4</i> Posters	<i>TEC/3</i> Fus Nucl Tech, Materials, Heating	<i>P6</i> Posters	<i>EX/7</i> Scenarios II	<i>P8</i> Posters	16:35-17:00	<i>Closing</i>	

Monday 16 October 2023

O/1 **Opening & High Level Session** (08:30-11:00)

08:30	O/1-1	R. Grossi Opening Statement by IAEA Director General	IAEA
08:40	O/1-2	A. Bowie Opening Statement by UK Parliamentary Under Secretary of State (Minister for Nuclear and Networks)	UK
08:50	O/1-3	Rafael Mariano Grossi I. Chapman Andrew Bowie Pietro Barabaschi Jean Paul Allain Satoshi Konishi High-level Panel on "World Fusion Outlook"	IAEA UK UK ITER DOE Japan
09:50	O/1-4	I. Chapman UK Fusion Program	UK
10:10	O/1-5	Nuclear Fusion Journal Representative Nuclear Fusion Journal Awards (2021-2023)	IAEA

10:45	IAEA FEC Secretariat and Technical Programme Committee Chair Administrative and Technical Remarks	IAEA
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OV/1 **Overview 1: Burning Plasmas and Long** (11:00-12:45)

Chairperson: Arianna Gleason-Holbrook (USA)
Co-Chairperson: Melissa Denecke (IAEA)

11:00	OV/1-1	C. Maggi Overview of T and D-T results in jet with ITER-like wall	UK
11:21	OV/1-2	A. Pak Target gain >1 from inertial confinement fusion implosions at the National Ignition Facility	USA
11:42	OV/1-3	P. Barabaschi Progress on ITER manufacturing, construction, commissioning and plans	ITER

Continued...

12:03	OV/1-4	X. Gong	P.R. China
		Overview of recent experimental results on EAST tokamak	
12:24- 12:45		Discussion, Q & A	

OV/2 Overview 2: Tokamak

Chairperson: Shinichi Ishida (Japan)

(14:00-16:05)

Co-Chairperson: Aline Des Cloizeaux (IAEA)

14:00	OV/2-1	W. Ko	Korea
		Overview of the KSTAR experiments	
14:21	OV/2-2	C. Holcomb	USA
		DIII-D Research to Provide Solutions for ITER and Fusion Energy	
14:42	OV/2-3	H. Zohm	Germany
		Overview of ASDEX upgrade results in preparation of ITER and DEMO	
15:03	OV/2-4	B. Duval	Switzerland
		Experimental Research on the TCV Tokamak	
15:24	OV/2-4	M. Xu	P.R. China
		Progress Of HL-2M Experiments	
15:45- 16:05		Discussion, Q & A	

OV/3 Overview 3: Stellarator, Spherical Tokamak

Chairperson: Elisabeth Wolfrum (Germany)

(16:30-18:35)

Co-Chairperson: Matteo Barbarino (IAEA)

16:30	OV/3-1	O. Grulke	Germany
		Overview of the first Wendelstein 7-X long pulse campaign with fully water-cooled plasma facing components	

Continued...

16:51	OV/3-2	K. Ida Overview of Large Helical Device experiments on basic plasma physics for solving future issues in nuclear fusion research	Japan
17:12	OV/3-3	J. Harrison Overview of physics results from MAST Upgrade towards core-pedestal-exhaust integration	UK
17:33	OV/3-4	S. McNamara Overview of high temperature plasmas in the ST40 compact high-field spherical tokamak	UK
17:54	OV/3-4	Z. Hartwig The SPARC Toroidal Field Model Coil Project	USA
18:15- 18:35		Discussion, Q & A	

Tuesday 17 October 2023

EX/1 & TH/1

Core-Edge

Chairperson: Yuhong Xu (P.R. China)
Co-Chairperson: Ryan Wagner (IAEA)

(08:30-10:10)

08:30	EX/1-1	F. Turco First Tungsten radiation studies and non-linear oscillations in DIII-D's ITER Baseline Demonstration Discharges	USA
08:47	EX/1-2	K. Thome Assessment of Negative Triangularity as a Reactor Scenario in DIII-D	USA
09:04	EX/1-3	O. Sauter Negative triangularity tokamak operation in TCV	Switzerland
09:21	Th/1-1	A. Mariani Negative triangularity scenarios: from TCV and AUG experiments to DTT predictions	Italy
09:38	EX/1-4	Y. In Susceptibility of RMP-driven, ELM-crash-suppression to radiatively controlled scrape-off-layers (SOL), and its impact on divertor	Korea
09:55- 10:10		Discussion, Q & A	

TH/2

Fast-Ions

Chairperson: Adelle Wright (USA)

(10:40-12:20)

Co-Chairperson: Danas Ridikas (IAEA)

10:40	TH/2-1	G. Brochard Saturation of fishbone instability by self-generated zonal flows in tokamak plasmas	ITER
10:57	TH/2-2	Z. Lin Prediction of energetic particle confinement in ITER operation scenarios	USA
11:14	TH/2-3	P. Oyola Mitigation of toroidal alfvén eigenmodes in negative triangularity plasmas at TCV	Spain
11:31	TH/2-4	A. Bierwage Energy-Selective Confinement of Alpha Particles during Benign Sawtooth Crashes in a Large Tokamak Plasma	Japan
11:48	TH/2-4	C. Sung Fast ion effects on internal transport barrier formation in KSTAR plasmas	Korea
12:05- 12:25		Discussion, Q & A	

LUNCH EVENT 1: WiF - Women in Fusion (13:00 - 14:00)

Description

The Women in Fusion (WiF) group was formed in 2022 as a follow-up action after the 2021 IAEA Fusion Energy Conference, with a vision of making fusion a fully inclusive field and with a focus on gender equity. Improving gender equity in Science and Technology is a critical and growing challenge. WiF aims to ensure that fusion can fully benefit from the perspectives, talent, skills, and intellect of women around the world.

WiF invites you to attend this lunch event “Creating an Inclusive Fusion Workforce”, which comprises of statements and panel discussion by distinguished guests representing various sectors and career experiences in nuclear fusion.

Please use the following link for registering to the event and for more information:

<https://conferences.iaea.org/e/WiF-at-FEC2023>.

(N.B. Registration for FEC2023 is required to attend this lunch event)

Moderator

Sehila GONZALEZ DE VICENTE, Chair of Women in Fusion

Opening statements

Rafael GROSSI, Director General of IAEA (recorded message)

Najat MOKHTAR, Deputy Director General of IAEA

Warrick MATTHEWS, CEO, Tokamak Energy

Amanda QUADLING, Director of Materials, UKAEA, UK

Panellists

Aline DES CLOIZEAUX, Vice President of WiN IAEA, Director of Nuclear Power Division of IAEA

Yutaka KAMADA, Deputy Director-General Science Technology, ITER Organization

Steffi DIEM, Assistant Professor, Engineering Department, UW-Madison, USA

Amanda QUADLING, Director of Materials, UKAEA, UK

Amani ZALZALI, Oak Ridge Associated University Postdoc based at General Atomics, San Diego, USA

Format

Panel statements and audience Q&A

OV/4

Overview 4: Technology, Long Pulse and Science

Chairperson: Min Xu (P.R. China)

(14:00-16:05)

Co-Chairperson: Anna Hajduk Bradford (IAEA)

14:00	OV/4-1	J. Bucalossi WEST first experiments with an ITER grade tungsten diver- tor	France
14:21	OV/4-2	H. Shirai Recent Progress of JT-60SA Project toward Plasma Operation	Japan
14:42	OV/4-3	G. Kurskiev Confinement, heating and current drive in spherical toka- mak GLOBUS-M2 with high magnetic field	Russia
15:03	OV/4-4	S. Maeyama Overview of multi-scale turbulence studies covering ion to electron scales in magnetically confined fusion plasma	Japan
15:24	OV/4-5a	Y. Carin Overview of Achievements of the IFMIF/EVEDA Project	F4E
	OV/4-5b	The DONES Programme: Status and next steps	Spain
12:05- 12:25		Discussion, Q & A	

TECH/1 ITER Technology

Chairperson: George Tynan (USA)

(16:30-18:30)

Co-Chairperson: Matteo Barbarino (IAEA)

16:30	TECH/1-1	M. Lehnen Physics basis and technology development for the ITER disruption mitigation system	ITER
16:47	TECH/1-2	T. Hemmi Lessons learned from European and Japanese productions of ITER toroidal field coils	ITER
17:04	TECH/1-3	K. Wooley Lessons learned from ITER central solenoid manufacturing	USA
17:21	TECH/1-4	A.K. Bhardwaj Challenges and lessons learnt during Manufacturing, Transportation and Assembly of the ITER Cryostat	India
17:38	TECH/1-5	M. Martinez Lopez Lessons learned in the management of the production of the poloidal field coils (and other coils)	F4E
17:55	TECH/1-5	K. Lu Correction coil and magnet feeder lessons learned	ITER
18:12-18:30		Discussion, Q & A	

Wednesday 18 October 2023

TH/3 Edge & Divertor

Chairperson: Jeremy Lore (USA)

(08:30-10:10)

Co-Chairperson: Kalle Heinola (IAEA)

08:30	TH/3-1	C. Chang Role of turbulent separatrix tangle in the improvement of the integrated pedestal/heat-exhaust issue for stationary operation in ITER and Fusion Reactors <i>Continued...</i>	USA
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08:47	TH/3-2	G. Wilkie Kinetic simulations of pedestal fueling asymmetry and implication for scrape-off layer flows	USA
09:04	TH/3-3	P. Ricci Theoretical scaling of the operational density limit in tokamaks and comparison to experimental data	Switzerland
09:21	TH/3-1	J. Parisi A Gyrokinetics-Based Model For Predicting Pedestal Width Scaling At Arbitrary Aspect Ratio	USA
09:38	TH/3-4	R. Pitts On the possibility of X-point radiation regime for ITER-like TOKAMAKS	ITER
09:55-10:10		Discussion, Q & A	

IFE/1

Inertial Fusion Energy

Chairperson: Yasuhiko Sentoku (Japan)

(10:40-12:20)

Co-Chairperson: Matteo Barbarino (IAEA)

10:40	IFE/1-1	S. Fujioka Compression of solid spherical fuel for fast ignition based inertial fusion energy	Japan
10:57	IFE/1-2	A. Moore Diagnosing Inertial Confinement Fusion Ignition	USA
11:14	IFE/1-3	K. Humbird Predictions of Performance Variations in Inertial Confinement Fusion Experiments at the National Ignition Facility	USA
11:31	IFE/1-4	A. Casner 80 beams, 270 kJ ICF implosions on LMJ-PETAL	France
11:48	TH/2-4	R. Scott Results from the EUROFUSION Enabling Research Project "Advancing shock ignition for direct-drive inertial fusion"	UK
12:05-12:25		Discussion, Q & A	

LUNCH EVENT 2: IFE - Inertial Fusion Energy (13:00 - 14:00)

Description

Developing IFE Programs across the globe may be accelerated by private industry driving commercialization, new and upgraded facilities/experimental infrastructure, and advancing benchmarked theory and simulation capabilities. At this watershed moment in IFE science and technology, it is important to hear how each major country/region is directing resources and framing technical strategies for success, which may include private industry partnerships and/or government support for dedicated IFE Research Programs. At this Lunch Event we will hear from several invited panel members to share the international stage on their IFE Programs and Policies – learning from each other to help achieve a global goal of clean energy realization through fusion.

Charge to each Panel member: 10 min overview on their country's/region's current IFE Program status, strategy, and near-/long-term goals.

Moderator

Arianna Gleason | SLAC National Accelerator Laboratory, Stanford University (USA)

Invited panelists

Tammy Ma | Lawrence Livermore National Laboratory (USA)

Sébastien Le Pape | Laboratory for the Use of Intense Laser (France)

Ryosuke Kodama | Osaka University (Japan)

Fuyuan Wu | Shanghai Jiao Tong University (China)

Nicholas Hawker | First Light Fusion (UK)

Moderated discussion points:

- Identify technical hurdles where we can leverage more international cooperation
- Comment on strategy to build the needed IFE workforce
- Key areas where the IFE community can learn from the MFE community

Format

Panel statements and audience Q&A

TECH/2 In Vessel Components and Heating

Chairperson: EunMi Choi (Korea)

(14:00-16:00)

Co-Chairperson: Palak Jain (IAEA)

14:00	TECH/2-1	M. Missirlian	France
		Overview related to manufacturing, testing and installation of the full tungsten actively cooled ITER-like divertor in the WEST tokamak	

Continued...

14:17	TECH/2-2	A. Pizzuto The divertor tokamak test facility: engineering and technology integration challenges	Italy
14:24	TECH/2-3	R. Maingi Progress in a US-based liquid metal plasma-facing component design activity for a fusion nuclear science facility	USA
14:51	TECH/2-4	I. Fernandez-Berceruelo Progress in design and experimental activities for the development of an advanced breeding blanket	Spain
15:08	TECH/2-4	J. Chen Development and Manufacturing of Beryllium-armoring ITER Enhanced Heat Flux FW towards Series Production in China	P.R. China
15:25	TECH/2-5	A. Seltzman Development of monolithically additive manufactured lower hybrid current drive launchers and RF systems	USA
15:42-16:00		Discussion, Q & A	

EX/2

Pedestal

Chairperson: Volker Naulin (Denmark)

Co-Chairperson: Danas Ridikas (IAEA)

(16:30-18:30)

16:30	EX/2-1	E. Solano L-H transition physics results from recent tritium and deuterium-tritium campaigns at JET	Spain
16:47	EX/2-2	N. Logan Improved pedestal performance utilizing resonant magnetic perturbations and edge localized electron cyclotron current drive	USA
17:04	EX/2-3	X. Chen Recent progress of the reactor-relevant intrinsically ELM-stable quiescent H-mode on the DIII-D tokamak	USA
17:21	EX/2-4	L. Gil Overview of EDA H-mode experiments and studies in ASDEX Upgrade	Portugal

Continued...

17:38	EX/2-4	N. Aiba Identification of plasma conditions affecting MHD phenomena in QH-mode and ELMy H-mode plasmas in DIII-D	Japan
17:55	EX/2-5	A. Hakola Helium plasma operations on ASDEX Upgrade and JET in support of the non-nuclear phases of ITER	Finland
18:12- 18:30		Discussion, Q & A	

Thursday 19 October 2023

EX/3 & TH/4

Turbulence

Chairperson: Jae Min Kwon (Korea)
Co-Chairperson: Gaeul Choi (IAEA)

(08:30-10:10)

08:30	EX/3-1	M. Kobayashi Turbulence spreading into edge stochastic magnetic layer induced by MHD activity and its impact on divertor heat load	Japan
08:47	EX/3-2	G. McKee Turbulence, transport and confinement dependence on isotope mass in dimensionally similar H-mode plasmas on DIII-D	USA
09:04	EX/3-3	T. Nasu Electron-scale turbulence characteristics in LHD plasma	Japan
09:21	EX/3-4	N. Howard A Performance and Transport in ITER: Multi-Channel Validation in DIII-D ITER-Like Conditions and Predictions of ITER Burning Plasmas Via Nonlinear Gyrokinetic Profile Prediction	USA
09:38	TH/4-5	P. Ulbl Progress on understanding the nature of edge and scrape-off layer turbulence using ab-initio simulations in diverted geometry	Germany
09:55- 10:10		Discussion, Q & A	

**TH/5,
IAC/1
&
EX/4**

Control

Chairperson: Elina Militello Asp (UK)
Co-Chairperson: Christian Hill (IAEA)

(10:40-12:20)

10:40	TH/5-1	S. Inoue Development of a novel optimization scheme for plasma equilibrium control with superconducting coil in JT-60SA	Japan
10:57	IFE/1-2	T. Wakatsuki Adaptive control of safety factor profile and normalized beta for JT-60SA using reinforcement learning	Japan
11:14	IFE/1-3	J. Romero Optimization and feedback control of the C-2W field reversed configuration	USA
11:31	IFE/1-4	R. Shousha closed loop RMP ELM suppression with minimized confinement degradation using adaptive control demonstrated in DIII-D and KSTAR	USA
11:48	TH/2-5	S. Yang Tailoring error field of tokamak to control plasma instability and transport	USA
12:05- 12:25		Discussion, Q & A	

LUNCH EVENT 3: Energy Justice and Social Licensing (13:00 - 14:00)

Description

With the fusion energy ecosystem entering an era focused on design and construction of fusion pilot plants and fusion commercialization, it is imperative that the international fusion community tackle the social implications of this new technology.

Energy development and deployment has, historically, benefited and burdened communities inequitably, with the benefits going disproportionately to affluent communities and the burdens imposed, overwhelmingly, on historically disadvantaged communities.

The international fusion community has the opportunity to be intentional in incorporating these energy justice concerns into fusion energy's development and deployment but this is the moment

to begin engaging with the potentially affected communities and other stakeholders and subject-matter experts. This panel will focus on these energy justice concerns as they relate to fusion energy as well as the closely-related issue of “social licensing” which concerns the community buy-in of the development and deployment of the technology.

Moderator

Arturo Dominguez | Head of Science Education | PPPL (USA)

Introductory Remarks

Sir Steven Cowley | Director | PPPL (USA)

Invited panelists

Seth Hoedl | President, Chief Science Officer Co-founder| Post Road Foundation

Karoly Tamas | ITER Site Building Legal Affairs | Fusion for Energy

Prabhat Ranjan | Vice Chancellor | D. Y. Patil International University

Yasmin Yacobi | Deputy Chief Of Staff in the Office of Economic Impact and Diversity, U.S. Department of Energy (DOE)

Format

Panel statements and audience Q&A

**EX/5
&
TH/6**

Scenarios I

Chairperson: Juan Huang (P.R. China)
Co-Chairperson: Danas Ridikas (IAEA)

(14:00-16:00)

14:00	EX/5-1	J. Garcia Overview of alpha particle and fast ion studies in JET DTE2 plasmas	France
14:17	EX/5-2	Y. Na Fire mode: a new fast ion regulated regime for high-performance, steady-state operation	Korea
14:24	EX/5-3	A. Dinklage Controlling performance bifurcations in large stellarators	Germany
14:51	EX/5-4	F. Nespoli Impurity powder injection experiments in the Large Helical Device	USA
15:08	TH/6-5	I. Calvo A quasi-isodynamic stellarator configuration optimized for fast-ion confinement and turbulent transport	Spain
15:25	Ex/5-6	W. Zhong Realization of high energy confinement plasmas with I-mode and ion ITB regimes in the HL-2A tokamak	P.R. China

15:42-
16:00

Discussion, Q & A

TECH/3

Fusion Nuclear Technology, Materials, Heating

Chairperson: Alberto Loarte (ITER)

(16:30-18:50)

Co-Chairperson: Matteo Barbarino (IAEA)

16:30	TECH/3-1	D. King JET machine operations in tritium & D-T	UK
16:47	TECH/3-2	E. Bernard Understanding tritium inventory and permeation in materials for fusion reactors: a coupled experimental and modelling approach	France
17:04	TECH/3-3	R. Ikeda Demonstration of triple-frequency gyrotron for ITER and development of gyrotron operation technology	Japan
17:21	TECH/3-4	K. Thackston High Frequency Dielectric Lined Waveguides to Enable Future ECH / ECE in Fusion Energy Development	USA
17:38	TECH/3-5	L. Packer ITER materials irradiation within the D-T neutron environment at JET: Post-irradiation analysis outcomes and recommendations	UK
17:55	TECH/3-6	V. Chakin High-Dose Neutron Irradiation of Beryllium and Titanium Beryllide: Summary and Outlook	Germany
18:12	TECH/3-7	N. Yanagi Applicability of large-current HTS simply-stacked conductor (STARS) for fusion reactors and next-generation fusion experimental devices	Japan
18:30- 18:50		Discussion, Q & A	

Friday 20 October 2023

EX/6 & TH/7

3D Physics

Chairperson: Theresa Wilks (USA)
Co-Chairperson: Danas Ridikas (IAEA)

(08:30-10:10)

08:30	EX/6-1	M. Willensdorfer Resistive and 3D effects in ELM-suppressed H-mode with resonant magnetic perturbations in ASDEX upgrade	Germany
08:47	EX/6-2	S. Kim Investigation of RMP-induced ion-scale turbulence in the pedestal and its role in accessing the optimized high-confinement ELM-free state	USA
09:04	EX/6-3	Q. Hu Integration of RMP ELM control with divertor detachment in the DIII-D tokamak	USA
09:21	EX/3-4	V. Izzo Runaway electron prevention by a passive 3D coil in disruption simulations of the SPARC and DIII-D tokamaks	USA
09:38	TH/4-5	Y. Sun Achievement of ELM suppression with N=4 RMP in EAST towards ITER baseline scenario	P.R. China
09:55- 10:10		Discussion, Q & A	

TECH/4

Next steps and Heating & Current drive

Chairperson: Jérôme Bucalossi (France)
Co-Chairperson: Matteo Barbarino (IAEA)

(10:40-12:20)

10:40	TECH/4- 1	G. Federici Status and prospects for DEMO related developments in EUROPE	Germany
10:57	TECH/4- 2	J. Kang Assessing the technological and physics maturity required for the design space of the K-DEMO	Korea

Continued...

11:14	TECH/4-3	Y. Sakamoto Progress of basic conceptual design of JA DEMO	Japan
11:31	TECH/4-4	U. Fantz Contributions of the extended ELISE and BATMAN Upgrade test facilities to the roadmap towards ITER NBI	Germany
11:48	TECH/4-5	H. Tobar Progress on long-pulse and ITER-relevant-intensity negative ion beam accelerations for ITER neutral beam injector	Japan
12:05-12:25		Discussion, Q & A	

LUNCH EVENT 4: Public Engagement (13:00 - 14:00)

Description

The recent acceleration in advances in fusion brings into focus the need for an engaged public and a prepared fusion energy workforce. This panel will focus on the critical importance of multi-level education, public engagement, and workforce development in fusion energy research and deployment. With the goal of garnering public support and preparing for a boom in job growth, panelists will discuss their experiences and best practices for engaging and training people to join the fusion energy community. The panel will explore whether current efforts are effective and what can be learned from international community leaders and experts outside the field.

Moderator

Shannon Swilley Greco | Science Education Senior Program Associate | PPPL (USA)

Invited panelists

Hyeon Park, UNIST, Rep. of Korea

Sabina Griffith | ITER Organization

Claudia Fracchiola | Head of Public Engagement | American Physical Society

Katemari Rosa | Federal University of Bahia, Brazil

Roddy Vann | Chair of FuseNet Board

Format

Panel statements and audience Q&A

TH/8 & IAC/2

MHD & disruptions

Chairperson: Akihiro Ishizawa (Japan)
Co-Chairperson: Vladimir Artisiuk (IAEA)

(14:00-16:00)

14:00	TH/8-1	M. Hoelzl Non-linear MHD investigations of high-confinement regimes without type-I ELMs in ASDEX Upgrade and JT-60SA	Germany
14:17	TH/8-2	A. Wingen Prediction of pellet mass thresholds for ELM triggering in low-collisionality, ITER-like discharges	USA
14:24	TH/8-3	G. Dong Toroidal modeling of interactions between internal kink instability and energetic ions in HL-2M	Germany
14:51	IAC/2-4	Y. Ono Bifurcated Merging Operations of Two Spherical Tokamak Plasmas for Reconnection Heating and Helicity Injection	Japan
15:08	TH/8-5	E. Nardon Modelling of runaway electron dynamics in tokamak disruptions	France
15:25	TH/8-6	N. Schwarz Mechanisms of the global force reduction in disruptions - Experimental validation of mitigated and unmitigated VDEs with the MHD code JOREK	Germany
15:42-16:00		Discussion, Q & A	

EX/7

Scenarios II

Chairperson: Yoshiteru Sakamoto (Japan)
Co-Chairperson: Ryan Wagner (IAEA)

(16:30-18:50)

16:30	EX/7-1	E. Lerche The JET hybrid scenario in D, T and D-T	Germany
16:47	EX/7-2	M. Maslov Tritium-rich scenario for high fusion power in JET DTE2	UK
17:04	EX/7-3	L. Garzotti Development of high current baseline scenario for high deuterium-tritium fusion performance at JET	UK
17:21	EX/7-4	J. Park	USA

		Long pulse high li steady state scenario on KSTAR <i>Continued...</i>	
17:38	EX/7-5	J. Huang Sustainment of High qmin, High N Plasmas on DIII-D towards Steady-state Advanced Tokamak Fusion	P.R. China
17:55	EX/7-6	M. Mantsinen Radio-frequency heating schemes in JET deuterium-tritium plasmas in preparation of ITER	Spain
18:12- 18:30		Discussion, Q & A	

Saturday 21 October 2023

EX/8

Exhaust

Chairperson: Ezekial Unterberg (USA)

(08:30-10:10)

Co-Chairperson: Aline Des Cloizeaux (IAEA)

08:30	EX/8-1	O. Pan The compact radiative divertor in ASDEX Upgrade and EU-DEMO, experiments & simulation	Germany
08:47	EX/8-2	M. Groth Impact of H, D, T and D-T Hydrogenic Isotopes on Detachment in JET ITER-like Wall Low-Confinement Mode Plasmas	Finland
09:04	EX/8-3	D. Moulton Interpretative modelling of MAST-U Super-X and Conventional divertor configurations	UK
09:21	EX/8-4	F. Scotti 2D characterization of radiative divertor regimes with impurity seeding in DIII-D H-mode discharges	USA
09:38	EX/8-5	D. Douai Overview of Plasma-Wall Interactions studies in JET-ILW H D, T and DT campaigns	France
09:55- 10:10		Discussion, Q & A	

TH/9

Core Transport

Chairperson: Francesca Poli (USA)

(10:40-12:20)

Co-Chairperson: Ryan Wagner (IAEA)

10:40	TH/9-1	G. Choi Gyrokinetic study of fast ion effects on Alfvénic modes and microturbulence in KSTAR L-mode plasmas	Korea
10:57	TH/9-2	E. Narita A neural network-based semi-empirical turbulent transport model for integrated simulations of upcoming fusion devices	Japan
11:14	TH/9-3a	C. Angioni The L-mode tokamak confinement, from full-radius integrated modelling validation on ASDEX Upgrade to reactor predictions	Germany
	TH/9-3b	Successful Prediction of Tokamak Transport in the L-mode Regime	USA
11:31	TH/9-4	L. Qi Hydrogen isotope effects on microturbulence and linear to saturated Ohmic confinement transition	Korea
11:48	EX/9-5	A. Sips Power and isotope effects on the ITER Baseline Scenario with W and W-equivalent radiators in DIII-D	USA
12:05	TECH/9-6	M. Zlobinski First Results of Laser-Induced Desorption – Quadrupole Mass Spectrometry (LID-QMS) at JET-ILW	Germany
12:22-12:40		Discussion, Q & A	

LUNCH EVENT 5: IAEA Panel Session (13:10 - 14:00)

Description

In this session, you will hear an update on the IAEA's activities across the Departments of Nuclear Sciences and Applications, Nuclear Energy and Nuclear Safety and Security. The event will be an opportunity to get acquainted with these developments and engage with the Agency on its activities.

Convener

Melissa DENECKE | IAEA

Aline DES CLOIZEAUX | IAEA

PWF Pathways to fusion

Chairperson: Richard Buttery (USA)

(14:00-16:35)

Co-Chairperson: Matteo Barbarino (IAEA)

14:00	PWF-1	R. Buttery Introduction	USA
14:05	PWF-2	D. Brunner Commonwealth Fusion Systems' High-Field Path to Fusion Energy	USA
<i>Continued...</i>			
14:17	PWF-3	B. Grierson Design and Technology Maturation of General Atomics Steady-State Advanced Tokamak Fusion Pilot Plant	USA
14:29	PWF-4	A. Becoulet Pathways to fusion energy – the ITER contributions and views	ITER
14:41	PWF-5	A. Donné The European path towards fusion electricity	Germany
14:53	PWF-6	S. Ishida Pathways to fusion energy at the QST	Japan
15:05	PWF-7	T. Pedersen The High Field Stellarator Direct Path to Fusion Energy	USA
15:17	PWF-8	S. Diem Reimagining The Design Of Fusion Energy Systems In Support Of A Just Energy Transition	USA
15:29	PWF-8	K. Masuda EX-Fusion: Advancing high power high repetition laser as a platform for laser fusion power	Japan
15:41-16:00		Discussion, Q & A	
16:00-16:35		Discussion with invited panel	

C/1 Closing

Chairperson: Takashi Inoue (Japan)

(17:00-18:15)

Co-Chairperson: Danas Ridikas (IAEA)

16:35	C/1-1	Danas Ridikas Matteo Barbarino Ryan Wagner Poster Prizes Announcement	IAEA
16:45	C/1-2	M. Xu FEC 2025 Announcement	IAEA
16:50	C/1-3	Aline Des Cloizeaux IAEA closing statement	IAEA

Overview Orals

1946	Costanza Maggi Overview Of T And D-T Results In JET With ITER-Like Wall	United Kingdom
2224	Arthur Pak Target Gain >1 From Inertial Confinement Fusion Implosions At The National Ignition Facility	United States
2354	Pietro Barabaschi Progress On ITER Manufacturing, Construction, Commissioning And Plans	ITER Organization
2055	Xianzu Gong Overview Of Recent Experimental Results On EAST Tokamak	China
1885	Won-Ha Ko Overview Of The KSTAR Experiments	Korea, Republic of
2027	Christopher Holcomb DIII-D Research To Provide Solutions For ITER And Fusion Energy	United States
1754	Hartmut Zohm Overview Of ASDEX Upgrade Results In Preparation Of ITER And DEMO	Germany
2084	Basil Duval Experimental Research On The TCV Tokamak	Switzerland
2362	Xuru Duan Progress Of HL-2M Experiments	China
2270	Olaf Grulke Overview Of The First Wendelstein 7-X Long Pulse Campaign With Fully Water-Cooled Plasma Facing Components	Germany
1654	Katsumi Ida Overview Of Large Helical Device Experiments On Basic Plasma Physics For Solving Future Issues In Nuclear Fusion Research	Japan
2407	James Harrison Overview Of Physics Results From Mast Upgrade Towards Core-Pedestal-Exhaust Integration	United Kingdom
2277	Steven Mcnamara Overview Of High Temperature Plasmas In The ST40 Compact High-Field Spherical Tokamak	United Kingdom
2001	Zachary Hartwig The SPARC Toroidal Field Model Coil Project	United States
2392	Jérôme Bucalossi West First Experiments With An ITER Grade Tungsten Divertor	France
1679	Hiroshi Shirai Recent Progress Of JT-60SA Project Toward Plasma Operation	Japan
1638	Gleb Kurskiev Confinement, Heating And Current Drive In Spherical Tokamak Globus-M2 With High Magnetic Field	Russia
1734	Shinya Maeyama	Japan

- 1681 Overview Of Multi-Scale Turbulence Studies Covering Ion To Electron Scales In Magnetically Confined Fusion Plasma
Yann Carin Fusion for Energy
[Rapporteur] Overview Of Achievements Of The IFMIF/EVEDA Project
- 2058 **Angel Ibarra** Spain
[Rapporteur] The Dones Programme: Status And Next Steps

Overview Posters

2157	John Berkery NSTX-U Research Advancing The Physics Of Spherical Tokamaks	United States
2344	Craig Petty DIII-D: Closing The Gaps To Future Fusion Reactors	United States
2223	Juan Arturo Alonso De Pablo Density Profiles In Stellarators: An Overview Of Particle Transport, Fueling And Profile Shaping Studies At TJ-II	Spain
2139	Francesco Romanelli The Divertor Tokamak Test Project: Strengths And Critical Issues	Italy
2379	Yi Tan Twenty Years Of Research On The SUNIST Spherical Tokamak And The Design, Construction And First Operation Of The SUNIST-2 Spherical Tokamak	China
1772	Xavier Litaudon Eurofusion Technology Contributions To ITER Nuclear Operation	France
1944	Yong-Seok Hwang Research Activities In Versatile Experiment Spherical Torus (VEST) For The Development Of Compact Fusion Reactor	Korea, Republic of
2075	Ainur Zhaksybayeva Overview Of Experimental Results On The KTM Tokamak	Kazakhstan
2378	Emmanuel Joffrin Progress On An Exhaust Solution For A Reactor Using Eurofusion Multi-Machine Capabilities	France
1641	Yuejiang Shi Overview Of EXL-50 Research Progress And Future Plan	China
2126	Yonghua Ding Overview Of The Recent Experimental Research On The J-TEXT Tokamak	China
2348	Tao Lan An Overview Of KTX Reversed Field Pinch Upgrade Progress	China
2468	Costanza Maggi [Ov Poster Twin] Overview Of T And D-T Results In JET With ITER-Like Wall	United Kingdom
2471	Arthur Pak [Ov Poster Twin] Target Gain >1 From Inertial Confinement Fusion Implosions At The National Ignition Facility	United States
2472	Pietro Barabaschi [Ov Poster Twin] Progress On ITER Manufacturing, Construction, Commissioning And Plans	ITER Organization
2473	Xianzu Gong [Ov Poster Twin] Overview Of Recent Experimental Results On EAST Tokamak	China

2474	Gleb Kurskiev [Ov Poster Twin] Confinement, Heating And Current Drive In Spherical Tokamak Globus-M2 With High Magnetic Field	Russia
2475	Katsumi Ida [Ov Poster Twin] Overview Of Large Helical Device Experiments On Basic Plasma Physics For Solving Future Issues In Nuclear Fusion Research	Japan
2476	Hiroshi Shirai [Ov Poster Twin] Recent Progress Of JT-60SA Project Toward Plasma Operation	Japan
2477	Shinya Maeyama [Ov Poster Twin] Overview Of Multi-Scale Turbulence Studies Covering Ion To Electron Scales In Magnetically Confined Fusion Plasma	Japan
2478	Hartmut Zohm [Ov Poster Twin] Overview Of ASDEX Upgrade Results In Preparation Of ITER And DEMO	Germany
2479	Won-Ha Ko [Ov Poster Twin] Overview Of The KSTAR Experiments	Korea, Republic of
2480	Zachary Hartwig [Ov Poster Twin] The SPARC Toroidal Field Model Coil Project	United States
2481	Christopher Holcomb [Ov Poster Twin] DIII-D Research To Provide Solutions For ITER And Fusion Energy	United States
2482	Basil Duval [Ov Poster Twin] Experimental Research On The TCV Tokamak	Switzerland
2483	Olaf Grulke [Ov Poster Twin] Overview Of The First Wendelstein 7-X Long Pulse Campaign With Fully Water-Cooled Plasma Facing Components	Germany
2484	Steven Mcnamara [Ov Poster Twin] Overview Of High Temperature Plasmas In The ST40 Compact High-Field Spherical Tokamak	United Kingdom
2485	Xuru Duan [Ov Poster Twin] Progress Of HL-2M Experiments	China
2486	Jérôme Bucalossi [Ov Poster Twin] West First Experiments With An ITER Grade Tungsten Divertor	France
2487	James Harrison [Ov Poster Twin] Overview Of Physics Results From MAST Upgrade Towards Core-Pedestal-Exhaust Integration	United Kingdom
2591	Angel Ibarra [Ov Poster Twin] [Rapporteur] The Dones Programme: Status And Next Steps	Spain
2592	Yann Carin [Ov Poster Twin] [Rapporteur] Overview Of Achievements Of The IFMIF/EVEDA Project	Fusion for Energy

1627	Hiroshi Gota Enhanced Plasma Performance In C-2W Advanced Beam-Driven Field-Reversed Configuration Experiments	United States
1693	Matthias Hoelzl Non-Linear MHD Modelling Of Transients In Tokamaks: Recent Advances With The Jorek Code	Germany
2125	Rakesh Tanna Overview Of Physics Results From The ADITYA-U Tokamak And Future Experiments	India
2301	Novimir Antoniuk-Pablant The US Stellarator Program On The Path To A Fusion Pilot Plant	United States

Regular Orals

1600	Francesca Turco First Tungsten Radiation Studies And Non-Linear Oscillations In DIII-D&S ITER Baseline DEMONstration Discharges	United States
2355	Kathreen Thome Assessment Of Negative Triangularity As A Reactor Scenario In DIII-D	United States
1863	Olivier Sauter Negative Triangularity Tokamak Operation In TCV	Switzerland
1703	Alberto Mariani Negative Triangularity Scenarios: From TCV And AUG Experiments To DTT Predictions	Italy
1825	Yongkyoon In Susceptibility Of RMP-Driven, ELM-Crash-Suppression To Radiatively Controlled Scrape-Off-Layers (SOL), And Its Impact On Divertor	Korea, Republic of
1898	Guillaume Brochard Saturation Of Fishbone Instability By Self-Generated Zonal Flows In Tokamak Plasmas	ITER Organization
2295	Zhihong Lin Prediction Of Energetic Particle Confinement In ITER Operation Scenarios	United States
2093	Pablo Oyola Mitigation Of Toroidal Alfvén Eigenmodes In Negative Triangularity Plasmas At TCV	Spain
1663	Andreas Bierwage Energy-Selective Confinement Of Alpha Particles During Benign Sawtooth Crashes In A Large Tokamak Plasma	Japan
1865	Choongki Sung Fast Ion Effects On Internal Transport Barrier Formation In KSTAR Plasmas	Korea, Republic of
2302	Michael Lehnen Physics Basis And Technology Development For The ITER Disruption Mitigation System	ITER Organization
2365	Boris Bellesia Lessons Learned From European And Japanese Productions Of ITER Toroidal Field Coils	ITER Organization
2308	Kyle Wooley Lessons Learned From ITER Central Solenoid Manufacturing	United States
2192	Anil Kumar Bhardwaj Challenges And Lessons Learnt During Manufacturing, Transportation And Assembly Of The ITER Cryostat	India
2390	Alessandro Bonito Oliva Lessons Learned In The Management Of The Production Of The Poloidal Field Coils (And Other Coils)	Fusion for Energy
2437	Kun Lu	ITER Organization

2299	Correction Coil And Magnet Feeder Lessons Learned Alberto Loarte	United States
2384	Role Of Turbulent Separatrix Tangle In The Improvement Of The Integrated Pedestal/Heat-Exhaust Issue For Stationary Operation In ITER And Fusion Reactors George Wilkie	United States
1994	Kinetic Simulations Of Pedestal Fueling Asymmetry And Implication For Scrape-Off Layer Flows Paolo Ricci	Switzerland
2325	Theoretical Scaling Of The Operational Density Limit In Tokamaks And Comparison To Experimental Data Jason Parisi	United States
1635	A Gyrokinetics-Based Model For Predicting Pedestal Width Scaling At Arbitrary Aspect Ratio Vladimir Rozhansky	Russia
1736	On The Possibility Of X-Point Radiation Regime For ITER-Like Tokamaks Shinsuke Fujioka	Japan
2347	Compression Of Solid Spherical Fuel For Fast Ignition Based Inertial Fusion Energy Alastair Moore	United States
1616	Diagnosing Inertial Confinement Fusion Ignition Kelli Humbird	United States
2358	Predictions Of Performance Variations In Inertial Confinement Fusion Experiments At The National Ignition Facility Alexis Casner	France
2284	80 Beams, 270 kJ ICF Implosions On LMJâPÉTAL Robbie Scott	France
1989	Results From The Eurofusion Enabling Research Project "Advancing Shock Ignition For Direct-Drive Inertial Fusion" Marc Missirlian	France
2071	Overview Related To Manufacturing, Testing And Installation Of The Full Tungsten Actively Cooled ITER-Like Divertor In The West Tokamak Aldo Pizzuto	Italy
2334	The Divertor Tokamak Test Facility: Engineering And Technology Integration Challenges Andrei Khodak	United States
2089	Progress In A US-Based Liquid Metal Plasma-Facing Component Design Activity For A Fusion Nuclear Science Facility Ivan Fernandez-Berceruelo	Spain
2226	Progress In Design And Experimental Activities For The Development Of An Advanced Breeding Blanket Jiming Chen	China
1722	Development And Manufacturing Of Beryllium-Armoring ITER Enhanced Heat Flux Fw Towards Series Production In China Andrew Seltzman	United States

1837	Development Of Monolithically Additive Manufactured Lower Hybrid Current Drive Launchers And RF Systems Emilia R. Solano	Spain
1585	L-H Transition Physics Results From Recent Tritium And Deuterium-Tritium Campaigns At JET Nikoas Logan	United States
1992	Improved Pedestal Performance Utilizing Resonant Magnetic Perturbations And Edge Localized Electron Cyclotron Current Drive Xi Chen	United States
1804	Recent Progress Of The Reactor-Relevant Intrinsically ELM-Stable Quiescent H-Mode On The DIII-D Tokamak LuÃs Gil	Portugal
1672	Overview Of EDA H-Mode Experiments And Studies In ASDEX Upgrade Nobuyuki Aiba	Japan
1659	Identification Of Plasma Conditions Affecting MHD Phenomena In QH-Mode And ELMy H-Mode Plasmas In DIII-D Antti Hakola	Finland
1647	Helium Plasma Operations On ASDEX Upgrade And JET In Support Of The Non-Nuclear Phases Of ITER Masahiro Kobayashi	Japan
2332	Turbulence Spreading Into Edge Stochastic Magnetic Layer Induced By MHD Activity And Its Impact On Divertor Heat Load George Mckee	United States
1802	Turbulence, Transport And Confinement Dependence On Isotope Mass In Dimensionally Similar H-Mode Plasmas On DIII-D Tatsuhiko Nasu	Japan
2194	Electron-Scale Turbulence Characteristics In LHD Plasma Nathan Howard	United States
2352	Performance And Transport In ITER: Multi-Channel Validation In DIII-D ITER-Like Conditions And Predictions Of ITER Burning Plasmas Via Nonlinear Gyrokinetic Profile Prediction Philipp Uibl	Germany
1650	Progress On Understanding The Nature Of Edge And Scrape-Off Layer Turbulence Using AB-INITIO Simulations In Diverted Geometry Shizuo Inoue	Japan
1643	Development Of A Novel Optimization Scheme For Plasma Equilibrium Control With Superconducting Coil In JT-60SA Takuma Wakatsuki	Japan
2115	Adaptive Control Of Safety Factor Profile And Normalized Beta For JT-60SA Using Reinforcement Learning Jesus Romero	United States
1961	Optimization And Feedback Control Of The C-2W Field Reversed Configuration Ricardo Shousha	United States

1962	Seongmo0 Yang Closed Loop RMP ELM Suppression With Minimized Confinement Degradation Using Adaptive Control DEMONstrated In DIII-D And KSTAR Tailoring Error Field Of Tokamak To Control Plasma Instability And Transport	United States
1814	Jerónimo Garcia Overview Of Alpha Particle And Fast Ion Studies In JET DTE2 Plasmas	France
1925	Yong-Su Na Fire Mode: A New Fast Ion Regulated Regime For High-Performance, Steady-State Operation	Korea, Republic of
1820	Andreas Dinklage Controlling Performance Bifurcations In Large Stellarators	Germany
2029	Federico Nespoli Impurity Powder Injection Experiments In The Large Helical Device	United States
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1815	Akihiro Shimizu Recent Advanced Of CFQS Stellarator Construction And Predictive Studies Towards Proof-Of-Principle Of Magnetic Configuration Embedded With Magnetic Symmetry Of Tokamak	Japan
1816	Jisung Kang, Gahyung Jo Maasive Parametric Study For Prospective Design Space Of A Compact Tokamak Fusion Reactor	Korea, Republic of
1817	Minjun J. Choi Globally Self-Organized Weak Transport Barriers In KSTAR Plasmas	Korea, Republic of
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1821	Emmanuelle Tsitrone Overview Of Material Migration And Fuel Retention In The Full Tungsten Tokamak West After The First Phase Of Operation	France
1822	Andrea De Franco Recent Linear IFMIF Prototype Accelerator (LIPAc) Maintenance And Reliability Improvements And Future Lipac Upgrades	Fusion for Energy
1824	Pavel Goncharov Integrated Modelling Of Anisotropic Neutron Yields Of Classical And Spherical Tokamaks	Russia
1826	Dmitry Terentyev Qualification Of EUROFER97 And Design Rule Validation For ITER TBM: EUROfusion Contribution	Belgium
1827	Francis Clinton Prasanth Albert Devasagayam Gyrokinetic Simulations Of GAM-Turbulence Interplay In The FT-2 Tokamak Using GENE Simulations	Finland
1829	Maxime Lesur Impurity Parallel Velocity Gradient Instability	France
1830	Chandra Prakash Dhard First Operation And Validation Of Simulations For The Diverter Cryo-Vacuum Pumps In W7-X	Germany
1831	Sang-Hee Hahn Expansion Of Stable Operating Space For High Plasma Current Toward ITER-Relevant Regime In KSTAR	Korea, Republic of
1832	Lyn Westwood Fusion Decommissioning And Regulation Tech-L&S (UK-STEP Perspectives)	United Kingdom
1833	Edoardo Alessi Comparison Of MHD Onset Conditions In JET-ILW Experiments In D, T And D-T	Italy
1834	Neha Chaudhary Impact Of Rotational Transform And Internal Magnetic Islands On Electron Temperature Gradients And Plasma Confinement In Wendelstein 7-X	Germany
1835	Sebastien Vives Overview Of The Final Design Of The Visible And Infrared Wide Angle Viewing System Diagnostic For ITER In Equatorial Port 12	France
1836	Vasily Kiptily Observation Of Alpha Particles In D-T And T-Plasmas On JET	United Kingdom
1841	Nicola Bertelli A Detailed Study Of The Interaction Between The High Harmonic Fast Wave And The Scrape-Off Layer Region In NSTX/NSTX-U Plasmas	United States
1842	Benjamin Chapman-Oplopoiou Electron And Ion Scale Gyrokinetic Turbulent Transport Studies In JET-ILW H-Mode Pedestals	United Kingdom

1843	Jeremy M. Hanson Variable-Spectrum Mode Control Of High Poloidal Beta Discharges	United States
1844	Sergey Smolentsev Recent Breakthrough In Modeling Transport Processes In A Liquid Metal Blanket	United States
1845	Eugene Mukhin High Technologies Developed For ITER Divertor Thomson Scattering And Their Experimental Testing	Russia
1846	Nan Shi Prediction Of Transport In The JET DTE2 Discharges With The Tglf And Neo Models Using The Tgyro Transport Code	United States
1847	Pablo Rodriguez-Fernandez Core Performance Predictions With Nonlinear Gyrokinetics And Implications To Scope Burning-Plasma Tokamaks	United States
1849	Siye Ding On The Development Of An Operational Regime With High Normalized Density And Confinement For ITER And Attractive Fusion Pilot Plant	United States
1851	Myungwon Lee Observation Of Stationary Double Transport Barriers In KSTAR	Korea, Republic of
1853	Christopher Holland Core Transport Modeling And Characterization For Compact Tokamak Reactor Scenarios	United States
1855	Sun Ho Kim Preparation Of Lower Hybrid Fast Wave Current Drive Research On KSTAR	Korea, Republic of
1856	Minwoo Kim Integrated Process For RMP-Based ELM-Less Operation With Enhanced Plasma Performance In KSTAR Tokamak	Korea, Republic of
1857	Kimin Kim Application Of Non-Axisymmetric Magnetic Field For Control Of Alfvén Eigenmodes In KSTAR	Korea, Republic of
1859	S.G. Lee Toroidal Rotation Characteristics For Ohmic And ECH Plasmas In KSTAR	Korea, Republic of
1860	Byeongchan Lee On The Validation Of Neutron-Irradiation Simulation In W	Korea, Republic of
1861	Aaro Järvinen Bayesian Approach For Uncertainty Quantification And Data-Efficient Optimization In Fusion Research	Finland
1862	Ara Cho Planning Study On Korea Fusion Engineering Advanced Test Complex	Korea, Republic of
1864	Jon Kinsey Predictive Equilibrium Reconstruction Of DIII-D H-Mode Plasmas	United States

1866	Jaehyun Lee Role Of Edge Turbulence In Pedestal Evolution And Collapse Of KSTAR H-Mode Plasmas	Korea, Republic of
1867	Jaechun Seol Relation Between Pedestal Evolution And Edge Particle Sources In Tokamaks	Korea, Republic of
1868	Taeuk Moon Development Of Collision Detection Algorithms For Fusion Digital Twin With Simulation Capabilities	Korea, Republic of
1869	Brijesh Kumar Yadav Helium Cooling System For DEMO R & D	India
1870	Roland Sabot Systematic Analysis Of Turbulence: Component Extraction Of The Density Fluctuations And Study Of Their Dynamics For Different Regimes	France
1873	Jaesug Ki Development Of Virtual KSTAR For The Acceleration Of Fusion Research	Korea, Republic of
1874	Gahyung Jo Novel Numerical Methods For Gyrokinetic Whole Device Modelling Of Tokamak Plasma	Korea, Republic of
1875	Kieran Mccarthy Enhanced Plasma Performance After Pellet Injection In The Stellarator T-II	Spain
1876	Simon Freethy The Step Microwave Heating And Current Drive System	United Kingdom
1878	Sumin Yi A Validation Study Of A Turbulence Simulation Model With Bounce-Kinetic Electrons Using A KSTAR L-Mode Plasma	Korea, Republic of
1881	Krassimir Kirov Analysis Of Fusion Alphas Interaction With RF Waves In D-T Plasma At JET	United Kingdom
1882	Niek Den Harder Beam Optics Of RF Ion Sources In View Of ITER'S NBI Systems	Netherlands
1883	Sylvie Nicollet EU-DEMO Magnets Cryogenics And Thermohydraulics Analyses: Strategy, Status And Comparison	France
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1886	Hyeongjun Noh Deep Learning-Based Acceleration Of Multi-Species Fokker-Planck-Landau Collision Operator For Fusion Plasma Simulation	Korea, Republic of
1887	Silvana Nowak Sawteeth Dynamics In JET Baseline Discharges With Mixtures Of Isotopes	Italy
1888	Haewon Shin	Korea, Republic of

1889	Compatibility Of Argon-Seeded Detachment With Rmp-Induced ELM Control In KSTAR Žiga Štancar	United Kingdom
1890	Overview Of Interpretive Modelling Of Fusion Performance In JET DTE2 Discharges With Transp Kristel Crombe	Belgium
1891	Plasma Characterisation And Wall Conditioning Studies On The Tomas Device Michael Komm	Czech Republic
1892	Compass Upgrade: A High Field Tokamak For ITER- And DEMO-Relevant Research Alessandro Di Siena	Germany
1893	High-Fidelity Performance Predictions For Tokamaks And Stellarators: From Existing Devices To Burning Plasma Experiments Michael Dunne	Germany
1894	The Quasi-Continuous Exhaust Operational Space On ASDEX Upgrade And ITER Johan Buermans	Belgium
1895	Characterization Of ECRH Plasmas In Tomas Morten Lennholm	United Kingdom
1897	Plasma Control For The Step Power Plant Saskia Mordijck	United States
1899	Impact Of Ionization And Transport On Pedestal Density Structure In DIII-D And C-Mod Sergey Ananyev	Russia
1900	Progress In Modeling D/T Component Flows In Tokamak-Based FNS Fueling System Stanley Kaye	United States
1901	Transport And Microinstability Properties Of High Performance ST40 Plasmas Vladimir Moiseenko	Sweden
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1903	Fusion Reaction Rate And Fast Ion Distribution Functions Studied With Nuclear Radiation Spectroscopy In The Three Ion D-(DNBI)-3He Scenario At JET Larry Baylor	United States
1904	Progress Toward Continuous Pellet Injection Systems For Fueling Of Long Pulse Stellarators And Tokamaks Louis Zani	Fusion for Energy
1905	Development Of JT-60SA TF Feeder Model With Tactics Tool For Support To Thermal-Thermohydraulic Analyses Of Terminal Joint Temperature Margin Arkadi Kreter	United States
1906	Impact Of Cold Spray Parameters On Deuterium Trapping In Tantalum Coatings Hong-Sik Yun	Korea, Republic of

1907	Improvement And Validation Of Plasma Initiation Model For Versatile Experiment Spherical Torus Roberto Maurizio Experiments On Plasma Detachment In A V-Shaped Slot Divertor	United States
1908	Mingoo Yoo Innovative Delta-f PIC Algorithm For Efficient Homogeneous Simulation Of Fusion Plasmas From Core To Edge	United States
1909	Veronika Zamkovska Decaf Cross-Device Exploration Of Disruption Characterization Indicated By Abnormalities In Plasma Current And Vertical Position	United States
1910	Richard Majeski Recent Results From, And Plans For, LTX-Beta	United States
1911	Javier Hernandez Nicolau Global Gyrokinetic Simulations Of Turbulent Transport In Stellarators With Kinetic Electrons	United States
1912	Mate Lampert Evolution Of Intermittent Filaments In The Scrape-Off Layer Of NSTX	United States
1913	Vsevolod Soukhanovskii Modeling Of Radiation Transport Effects In Lithium Divertors	United States
1914	Brendan Lyons Simulation Of DIII-D Disruption With Pellet Injection And Runaway Electron Beam	United States
1915	Matthias Knolker Advances In RMP ELM Suppression Towards High Pedestal Pressures Harnessing The Super H-Mode Regime	United States
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1934	Teresa Beone Feasibility Of DEMO Dust DE-Tritiation To Refabrication Or Safety Disposal	Italy
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1938	Roberto Bilato Progresses In Understanding The Effects Of ICRF/NBI Fast-Ions On Core Turbulence And Alfvén Activity On ASDEX Upgrade	Germany
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1947	Umar Sheikh	Switzerland

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1977	Ashish Bhole Computational Models For Massive Material Injection In Tokamaks, Recent Developments In The JOREK Code	France
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1987	Shira Morosohk Rapid Model-Based Scenario Optimization Using Machine Learning: Reducing Computational Time While Preserving Prediction Accuracy By Surrogate Modeling	United States
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1997	Andrew Oakleigh Nelson Robust L-Mode Edge Behavior In High Performance Negative Triangularity Plasmas: From Experiments To Reactors	United States
1998	Shaun Haskey Plasma Fueling Due To Thermal Charge Exchange Neutrals On DIII-D And Future Reactors	United States
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2007	Rafaqat Ali Divertor Geometry Effects On The Steady State Operation Of The PST Tokamak Using SOLPS 5.0	Pakistan
2008	Peter Donnel Impact Of An Electron-Cyclotron Source On Tokamak Turbulence	France
2009	Kaushalkumar Pandya Influence Of Confinement Magnets On Negative Ion Source Performance	India
2010	Farid Sedighi Observation Of Microscopic Damage Of Tungsten And Molybdenum Surfaces Due To Helium Glow Discharge Cleaning	Iran
2011	Eugenia Dlougach Neutral Beam Efficiency In A Thermonuclear Neutron Source Tokamak	Russia
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2013	Ondrej Ficker New Diagnostics Developments And Results In Support Of Runaway Electron Studies At European Devices	Czech Republic
2015	Andrew Thornton Development Of Integrated Plasma Scenarios In MAST-U	United Kingdom
2017	Kizito Mubiru Multiobjective Lifecycle Budget Allocation For Fusion Power Plant Installation	Uganda
2018	Alexey Konovalov The Lower Hybrid Frequency Range Wave Emission In The Ohmic Discharge Of The FT-2 Tokamak	Russia
2019	Jaydeep Joshi Realization Of Beam Line Components For ITER DNB System-Lessons Learnt	India
2020	Adam Kit Generative Modeling Of Pedestal Plasmas In JET And AUG	Finland
2022	Ionut Jecu Comprehensive Approach To Analysis Of Beryllium Limiter Damage By Unmitigated Disruptions And Runaway Electrons In The JET Tokamak With Metal Walls	United Kingdom
2025	Jan Weiland Nonlinearities In Magnetic Confinement, Ionospheric Physics And Population Explosion Leading To Profile Resilience	United States
2028	Stanislas Pamela	United Kingdom

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2030	Benjamin Levitt Path To Commercial Fusion Energy Based On Sheared-Flow-Stabilized Z Pinches	United States
2031	Rongjie Hong Mesoscopic Turbulent Transport Events With Long-Radial-Range Correlation In Low Flow Shear H-Mode Plasmas On DIII-D	United States
2032	Tyler Ellis Leveraging The SPARC Experience To Establish Appropriate Regulatory Treatment For Future Fusion Power Plants	United States
2033	David Weisberg Integrated Design And Optimization Of The Advanced Tokamak Path Toward The Steady-State Fusion Pilot Plant	United States
2035	Bhaskar Chaudhury Influence Of Wall On Plasma Transport Across Magnetic Filter Field In A Negative Ion Source: A 2D-3V PIC MCC Simulation Study	India
2036	Ernesto Lerche Fundamental ICRF Heating Of Deuterium Ions In JET-DTE2	Belgium
2037	Adriano Agnello Phase Space Transport And Emulators In ITG Turbulence	United Kingdom
2038	Steven Sabbagh High Accuracy, Multi-Device Physics-Based Tokamak Disruption Prediction And Forecasting With First Real-Time Demonstration	United States
2039	Rajiv Sharma Dissimilar Material Joints At Cryogenic Temperature For Superconducting Fusion Application	India
2040	Ameneh Kargaryan Upgraded IR-IECF Device As A Promising Compact Source For The Future Nuclear Fusion Research	Iran
2041	Hongjuan Sun Enhanced Cross-Field SOL Transport In JET Tritium Plasma And Its Impact On Machine Operation	United Kingdom
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2046	Ben Lindley, Cary Forest, Doug Endrizzi, Jan Egadal, Jay Anderson, Oliver Schmitz, Kieran Furlong	United States

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2048	Axisymmetric Magnetic Control In ITER For PFPO-1 M. Rahman, S. Chetri, C. Corr, M. Thompson, S. Shekhar, G. De. Temmerman, M. Kakati	India
2049	Studies On The Retarded Recrystallization Of Tungsten In Cimple-PSI, At Extreme Target Temperature And He ⁺ -Fluence Yunchan Hu	China
2050	Gyrokinetic Simulations Of Effects Of Magnetic Shear On Turbulence In EAST High Îp Discharge Peiwan Shi	China
2051	Mitigation And Suppression Of Energetic Particles Driven Instabilities By Radio-Frequency Waves On The HL-2A Tokamak Ankush Deoghar	India
2052	Development Of Lead Lithium (Pb-16Li) Alloy Production System And Characterization Of The Produced Alloy Jie Zhang	China
2053	Investigation On Energetic Ion Losses Induced By Long-Lived Saturated Internal Mode With Energetic Particle Diagnostics In The HL-2A Tokamak Naveen Rastogi	India
2054	Aabhas: A 3 Sided Fully Immersive Virtual Reality Cave Facility For Design, Operations & Maintenance Of Nuclear Machines Jayhyun Kim	Korea, Republic of
2056	Shattered Pellet Injection Method Using Multi-Injection System In KSTAR Yi Zhang	China
2057	How Coherent Structure Accelerates Turbulence Spreading: A 'Trapping-Hopping' Mechanism Alessandro Pau	Switzerland
2059	A Modern Framework To Support Disruption Studies: The Eurofusion Disruption Database Juri Romazanov	Germany
2060	Validation Of The Ero2.0 Code Using W7-X And JET Experiments And Predictions For ITER Operation Thomas Pütterich	Germany
2061	The Stability Of The H-Mode Entry In The ITER Baseline Scenario Investigated In AUG And TCV Lorella Carraro	Italy
2062	RFX-mod2 Facility Upgrades And Diagnostic Capability Enhancements For The Exploration Of Multi-Magnetic-Configurations Paolo Innocente	Italy
2064	Design Of The Divertor For The DTT Facility Optimized For Power Exhaust Experiments William Hornsby	United Kingdom

	A Gaussian Process Surrogate Model For The Properties Of Micro-Tearing Modes In Spherical Tokamaks.	
2065	Rory Scannell MAST-U Thomson Scattering In The Core, Divertor And X-Point	United Kingdom
2067	Juuso Karhunen First Solps-ITER Predictions Of The Impact Of Cross-Field Drifts On Divertor And Scrape-Off Layer Conditions In Double-Null Configuration Of Step	Finland
2068	Yunfeng Liang Enhancement Of Plasma Boundary Stochastization And Its Profound Impacts On Access Of Divertor Detachment In High-Beta Plasmas On W7-X And LHD	Germany
2069	Zixi Liu Analysis Of Weakly Coherent Modes In The I-Mode Experiment On EAST And The Comparison With Drift Alfven Wave Theory	China
2070	Brendan Devlin-Hill Inspecting The Aftermath Of Vertical Displacement Events By Integrating The Jorek-Starwall Plasma Simulation Code Into A Remote Maintenance System	United Kingdom
2072	Luca Reali Irradiation-Induced Stress At Reactor Component Scale	United Kingdom
2073	Promod Sharma Simulation Studies Of Lower Hybrid Waves To Understand Lhcd Experiments In SST1 Tokamak	India
2074	Christian Hopf Decoupling Beam Power And Beam Energy On ASDEX Upgrade NBI With An In-Situ Variable Extraction Gap System	Germany
2076	Madhusudan Raghunathan Global Impurity Recirculation Patterns In Soledge3X-EIRENE Simulations Of West Discharges And Modeling Uncertainties On The Parallel Particle Balance	France
2077	Dheeraj Kumar Sharma Porcelain Based 100 kV Feedthrough For Prototype ITER DNB At INTF	India
2078	Joan Decker Recent Progress In Runaway Electron Research At TCV	Switzerland
2080	Wei Chen Features And Effects Of Energetic-Ion Driven Instabilities In HL-2A High-În Plasmas	China
2081	Jianqiang Xu Gyrokinetic Simulations Of The Effect Of Fast Ions On Turbulence And Zonal Flows In HL-2A ITB Plasmas	China
2082	Philippe Jacquet ICRF Operations During The JET Tritium And DTE2 Campaigns	United Kingdom
2083	Frida Eriksson	United Kingdom

2085	Global Simulations Of The Flat-Top And Exit Phase Of ITER 15MA Baseline Scenario Fully Predictive Jintrac Simulations With Consistent Treatment Of D And T In The Whole Plasma Bhavin Patel, Colin Roach, Daniel Kennedy, Francis Casson, Frida Eriksson, Harry Dudding, Jackson Barr, Jonathan Citrin, Lorenzo Zanisi, Thandikire Madula, Aaron Ho	United Kingdom
2086	Cheap Training Sets For Gyrokinetic Surrogate Models With High Dimensionality For STEP Ramp-Up Scenarios Emmi Tholerus	United Kingdom
2087	Modelling The Path To $Q = 10$ In The ITER 15Ma Baseline Scenario With JINTRAC Elina Militello Asp	United Kingdom
2088	First Full Plasma ITER Integrated Modelling Studies With Separated Deuterium And Tritium And Optimal Tritium Usage - Overview Of Jintrac Simulations Of The Entire ITER 15MA/5.3T Dt $Q=10$ Scenario Thomas Hayward-Schneider	Germany
2090	Global Gyrokinetic Simulations Of Alfvén Eigenmodes In ITER And ASDEX Upgrade And The Effect Of Energetic Particle Distribution Functions On Stability George Holt	United Kingdom
2091	A Fast, Machine Learning-Based Emulator Of Scrape-Off Layer And Divertor Simulations For The MAST-U Tokamak: Towards Deep Reinforcement Learning Detachment Control Sarah Bickerton	United Kingdom
2092	How UKAEA'S Fuel Cycle Loop Will Address Key Challenges In Tritium Management For Fusion Power Roberto Ambrosino	Italy
2095	Effects Of Electromagnetic Transients On DTT In-Vessel Coils Rhian Chapman	United Kingdom
2096	Developing Integrated Cost Models For Fusion Power Plants Marco De Pietri	Spain
2098	Development And Validation In Neutron-Irradiated Water Of Fluned, An Open-Source Tool For Fluid Activation Calculations Jesus Dominguez-Palacios	Spain
2100	Methods And Simulations Of ELMs In Tokamak Plasmas With A 3D Nonlinear Hybrid Kinetic-MHD Code Tess Bernard	United States
2101	Effects Of Neutral Transport And Negative Triangularity On Plasma Scrape-Off Layer Turbulence In Gyrokinetic Simulations Federico Halpern	United States
2102	Drift-Fluid Simulations Of Tokamak Edge Turbulence With Energy Conservation Young-Seok Park	United States
	Progress On Neoclassical Tearing Mode Stabilization By Electron Cyclotron Current Drive In KSTAR	

2103	Bob Kool Experimental Investigation Of The Physics & Performance Of The MAST-Upgrade Super-X Divertor	United Kingdom
2104	Juan Francisco Rivero Rodriguez Overview Of Fast Particle Experiments In The First MAST-U Experimental Campaigns	United Kingdom
2105	Kyle Callahan Origin Of The L-H Threshold Isotope Effect In DIII-D Hydrogen And Deuterium Plasmas	United States
2106	Bruno Coppi Non-Thermal Fusion Burning Processes, Relevant Collective Modes And Gained Perspectives	United States
2107	Jerry Hughes Access To Edge Transport Barriers And Projections Of Pedestal Performance In The SPARC Tokamak	United States
2108	Stephen Wukitch Development Of DIII-D High Field Side Lower Hybrid Current Drive Launcher	United States
2109	Henry Hingyin Wong Complex Spatial Structures Of Fishbone Instabilities Inferred With Multiple Diagnostics In Mast/-U	United States
2110	Dmitriy Borodin Atomic And Molecular Collisional-Radiative Models Associated With The Eirene Neutral Gas Module	Germany
2111	Robert Pinsker First High-Power Helicon Results From DIII-D	United States
2112	Theresa Wilks Limiting Factors For Achieving Peeling-Limited Pedestals In Present Devices	United States
2113	Sai Tej Paruchuri Actuator-Sharing Algorithm For Simultaneous Regulation Of Multiple Plasma Properties With Coupled Dynamics	United States
2114	Guangzhou Hao Toroidal Modeling Of 3D Field Perturbations Generated By Biasing Current In SOL Region In H-Mode Discharge In HL-2A	China
2116	Wenmin Zhang First Observation Of Edge Impurity Behavior With N=1 Rmp Application In EAST L-Mode Plasma	China
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Overview Of T And D-T Results In JET With ITER-Like Wall

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Target Gain >1 From Inertial Confinement Fusion Implosions At The National Ignition Facility

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Progress On ITER Manufacturing, Construction, Commissioning And Plans

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Overview Of Recent Experimental Results On EAST Tokamak

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NSTX-U Research Advancing The Physics Of Spherical Tokamaks

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Overview Of The KSTAR Experiments

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DIII-D: Closing The Gaps To Future Fusion Reactors

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DIII-D Research To Provide Solutions For ITER And Fusion Energy

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Density Profiles In Stellarators: An Overview Of Particle Transport, Fueling And Profile Shaping Studies At TJ-II

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Overview Of ASDEX Upgrade Results In Preparation Of ITER And DEMO

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Experimental Research On The TCV Tokamak

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The Divertor Tokamak Test Project: Strengths And Critical Issues

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Progress Of HL-2M Experiments

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Twenty Years Of Research On The SUNIST Spherical Tokamak And The Design, Construction And First Operation Of The SUNIST-2 Spherical Tokamak

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Eurofusion Technology Contributions To ITER Nuclear Operation

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Research Activities In Versatile Experiment Spherical Torus (VEST) For The Development Of Compact Fusion Reactor

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Overview Of The First Wendelstein 7-X Long Pulse Campaign With Fully Water-Cooled Plasma Facing Components

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Overview Of Experimental Results On The KTM Tokamak

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Overview Of Large Helical Device Experiments On Basic Plasma Physics For Solving Future Issues In Nuclear Fusion Research

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Progress On An Exhaust Solution For A Reactor Using Eurofusion Multi-Machine Capabilities

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Overview Of Physics Results From Mast Upgrade Towards Core-Pedestal-Exhaust Integration

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Overview Of EXL-50 Research Progress And Future Plan

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Overview Of High Temperature Plasmas In The ST40 Compact High-Field Spherical Tokamak

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Overview Of The Recent Experimental Research On The J-TEXT Tokamak

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The SPARC Toroidal Field Model Coil Project

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An Overview Of KTX Reversed Field Pinch Upgrade Progress

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[Ov Poster Twin] Overview Of T And D-T Results In JET With ITER-Like Wall

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[Ov Poster Twin] Target Gain >1 From Inertial Confinement Fusion Implosions At The National Ignition Facility

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[Ov Poster Twin] Progress On ITER Manufacturing, Construction, Commissioning And Plans

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[Ov Poster Twin] Overview Of Recent Experimental Results On EAST Tokamak

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[Ov Poster Twin] Confinement, Heating And Current Drive In Spherical Tokamak Globus-M2 With High Magnetic Field

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[Ov Poster Twin] Overview Of Large Helical Device Experiments On Basic Plasma Physics For Solving Future Issues In Nuclear Fusion Research

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[Ov Poster Twin] Recent Progress Of JT-60SA Project Toward Plasma Operation

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[Ov Poster Twin] Overview Of Multi-Scale Turbulence Studies Covering Ion To Electron Scales In Magnetically Confined Fusion Plasma

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IAEA-CN-316-2477

Materials: via Indico sever:



[Ov Poster Twin] Overview Of ASDEX Upgrade Results In Preparation Of ITER And DEMO

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IAEA-CN-316-2478

Materials: via Indico sever:



[Ov Poster Twin] Overview Of The KSTAR Experiments

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IAEA-CN-316-2479

Materials: via Indico sever:



[Ov Poster Twin] The SPARC Toroidal Field Model Coil Project

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IAEA-CN-316-2480

Materials: via Indico sever:



[Ov Poster Twin] DIII-D Research To Provide Solutions For ITER And Fusion Energy

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IAEA-CN-316-2481

Materials: via Indico sever:



[Ov Poster Twin] Experimental Research On The TCV Tokamak

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IAEA-CN-316-2482

Materials: via Indico sever:



[Ov Poster Twin] Overview Of The First Wendelstein 7-X Long Pulse Campaign With Fully Water-Cooled Plasma Facing Components

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Materials: via Indico sever:



[Ov Poster Twin] Overview Of High Temperature Plasmas In The ST40 Compact High-Field Spherical Tokamak

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IAEA-CN-316-2484

Materials: via Indico sever:



[Ov Poster Twin] Progress Of HL-2M Experiments

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IAEA-CN-316-2485

Materials: via Indico sever:



[Ov Poster Twin] West First Experiments With An ITER Grade Tungsten Divertor

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IAEA-CN-316-2486

Materials: via Indico sever:



[Ov Poster Twin] Overview Of Physics Results From MAST Upgrade Towards Core-Pedestal-Exhaust Integration

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IAEA-CN-316-2487

Materials: via Indico sever:



[Ov Poster Twin] [Rapporteured] The Dones Programme: Status And Next Steps

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Materials: via Indico sever:



[Ov Poster Twin] [Rapporteur] Overview Of Achievements Of The IFMIF/EVEDA Project

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Materials: via Indico sever:



Enhanced Plasma Performance In C-2W Advanced Beam-Driven Field-Reversed Configuration Experiments

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Materials: via Indico sever:



Non-Linear MHD Modelling Of Transients In Tokamaks: Recent Advances With The Jorek Code

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Materials: via Indico sever:



Overview Of Physics Results From The ADITYA-U Tokamak And Future Experiments

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Materials: via Indico sever:



The US Stellarator Program On The Path To A Fusion Pilot Plant

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Materials: via Indico sever:



First Tungsten Radiation Studies And Non-Linear Oscillations In DIII-DâS ITER Baseline DEMOnstration Discharges

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Materials: via Indico sever:



Impact Of Impurity Pellet Injection On The Transition Between Non-Mixing State And Mixing State Of Hydrogen Isotope Ions In LHD

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Materials: via Indico sever:



Assessment Of Negative Triangularity As A Reactor Scenario In DIII-D

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Materials: via Indico sever: 

H-Mode Density Limit Studies With Pellets Vs Gas In JET-ILW

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Materials: via Indico sever:



Negative Triangularity Tokamak Operation In TCV

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Materials: via Indico sever:



Diamagnetic Dynamo Driven Current Transport In EAST Tokamak

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Materials: via Indico sever:



Negative Triangularity Scenarios: From TCV And AUG Experiments To DTT Predictions

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Materials: via Indico sever:



High-Speed Turbulence Spreading And Time-Scale Dependence On Propagation Velocity Of Turbulence And Heat Pulses

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Materials: via Indico sever:



Susceptibility Of RMP-Driven, ELM-Crash-Suppression To Radiatively Controlled Scrape-Off-Layers (SOL), And Its Impact On Divertor

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Materials: via Indico sever:

Wide Pedestal Quiescent H-Modes Without Power Degradation Of Energy Confinement: An Observation Understood By Transport Modelling

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Materials: via Indico sever:



Effect Of Higher Particle Flux On Detached Simulation Plasma In The Gamma 10/PDX Divertor Simulation Experimental Module

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Materials: via Indico sever:



Saturation Of Fishbone Instability By Self-Generated Zonal Flows In Tokamak Plasmas

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Materials: via Indico sever:



Time Evolution Of 2D Emission Profiles Of Detached Plasma During Hydrogen And Impurities Combined Gas Seeding In Gamma10/PDX

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Materials: via Indico sever:



Prediction Of Energetic Particle Confinement In ITER Operation Scenarios

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Materials: via Indico sever:



Experimental DEMOnstration Of Transient Chi Startup Using A New Electrode Configuration On QUEST

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Materials: via Indico sever:



Mitigation Of Toroidal Alfvén Eigenmodes In Negative Triangularity Plasmas At TCV

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Materials: via Indico sever:



Role Of In-Plane Electric Field During Merging Formation Of Spherical Tokamak Plasmas

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Materials: via Indico sever:



Energy-Selective Confinement Of Alpha Particles During Benign Sawtooth Crashes In A Large Tokamak Plasma

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Materials: via Indico sever:



Fast Ion Effects On Internal Transport Barrier Formation In KSTAR Plasmas

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Materials: via Indico sever:



Influence Of Ar Injection On Shielding Layer Properties And Surface Protection From Transient High Heat Loads Under The QSPA Plasma Exposures

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Materials: via Indico sever:



Effect Of Hydrogen Plasma On Beryllium Under Operating Conditions Of A Fusion Reactor

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Materials: via Indico sever:



Toroidal Component Of Plasma Rotation Studies Carried Out In The TCABR Tokamak And Its Comparison With Neoclassic Theory

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Materials: via Indico severo:



Development Of A Combined Diagnostic System In Studies Of Plasma Parameters In The Radial Direction

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Materials: via Indico sever:



Momentum Transport Coefficient In The TCABR Tokamak

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Materials: via Indico sever:



ASME BPVC Section III Division 4 Fusion Construction Code Roadmap

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Materials: via Indico sever:



Progress And DEMONstration Of The Pulse-Shape Based Discrimination For Radiations Measurement In Fusion Reactor Breeding Blanket Using A Single Crystal CVD Diamond Detector

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Materials: via Indico sever:



The Effect Of Oscillating Radial Electric Field On L-H Transition In A Compact Tokamak

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Materials: via Indico sever:



Advanced Control In DIII-D: Supervisory And Fail-Safe Algorithms For Future Reactor-Grade Tokamaks

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Materials: via Indico sever:



Recent Developments In Radiation Transport For Fusion Reactors And Validation Of JET DT Experiments

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Materials: via Indico sever:



Innovations In Detection And Control Of Helical Instabilities In Wall-Stablized Tokamak Plasma

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Materials: via Indico sever:



NSTX-U Recovery Project Status And Plans

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Materials: via Indico sever:



Thermal-Hydraulic Simulation Of ITER Tungsten Divertor Monoblock For Loss Of Flow Transient

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Materials: via Indico sever:



Contributions Of Terror Management Theory To Fusion Energy's Social License

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Materials: via Indico sever: 

Experimental Evaluation Of Unstructured Grid Neutron Transport Code

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Materials: via Indico sever:



Evidence Of Bipolar Perturbations Of The Electron Distribution Function In High-Performance JET Plasmas

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Materials: via Indico sever: 

Radiation Responses In A Neutral Beam Injector Guard Wall Of The ITER Using MCNP6 And GEANT4

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Materials: via Indico sever:



Progress Of Electrical And Nuclear Safety Design Of Dc 1 Mv Power Supply System For The ITER Neutral Beam Injector

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Materials: via Indico sever: 

Application Of Transformation Super Plasticity For Reduced Activation Ferritic / Martensitic Steel

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Materials: via Indico sever:



Topology Optimization For The Structural Design Of The Coil Support In Magnet System Of A Helical Fusion Reactor

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Materials: via Indico sever:



Completion Of All The ITER Toroidal Field Coil Structures

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Materials: via Indico sever:



Desing, Construction And First Operation Of Pilot Gamma PDX-SC Superconducting Mirror Device

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Materials: via Indico sever:



Development Of A Plasma Scenario For The EU DEMO Tokamak Reactor

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Materials: via Indico sever:



Study Of Edge-Localised Modes (ELMs) On The Spherical Globus-M2 Tokamak

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Materials: via Indico sever: 

Towards A MPEX Digital Twin

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Materials: via Indico sever:



Development Of Mw Gyrotrons With Collaboration Research For Plasma Heating In Fusion Experimental Devices

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Materials: via Indico sever:



Role Of Fast Ions In Growth Of Spontaneous Neoclassical Tearing Modes

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Materials: via Indico sever:



Progress And Challenges In Commissioning Operation On JT-60SA Tokamak Device System

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Materials: via Indico sever:



Dynamics Of Fast Electrons And Kinetic Modes In The Electron Cyclotron Heated QUEST Spherical Tokamak

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Materials: via Indico sever:



Status And Issues Of High-Temperature And High-Pressure Water Corrosion Research Of Fusion Structural Materials

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Materials: via Indico sever:



Physics And Engineering Design Of Electron Cyclotron Current Drive System For JA DEMO

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Materials: via Indico sever:



Plasma Operation Scenario Development And Required Conditions In Ja DEMO

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Materials: via Indico sever:



Interaction Of Helium Plasma With Carbide Surface Layer Of Tungsten

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Materials: via Indico sever:



Safety Study And Environmental Assessment On The JA DEMO Reactor

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Materials: via Indico sever: 

Tritium Neutral Beam Injection On JET: Calibration And Plasma Measurements

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Materials: via Indico sever:



Remote Operation Of The DIII-D National Fusion Facility

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Materials: via Indico sever: 

Conceptual Design Of A Modular EC System For EU-DEMO

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Materials: via Indico sever:



Design And Manufacturing Of In-Vessel Components Of JT-60SA And Their Installation For First Plasma

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Materials: via Indico sever: 

Beam Commissioning Of Linear Ifmif Prototype Accelerator (Lipac) Toward High-Duty Operation At 5 Mev, 125 mA D+

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Materials: via Indico sever:



Design And Development Study Of Large Superconducting Tf Coils To Withstand High Electromagnetic Forces For JA DEMO

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Materials: via Indico sever:



Achievement Of High-Current Continuous-Wave Deuteron Injector For Linear IFMIF Prototype Accelerator (LIPac)

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Materials: via Indico sever:



Progress In The Development Of The Fibre Optics Current Sensor For Magnetic Fusion Devices

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Materials: via Indico sever:



Combined Neutron And Gamma-Ray Spectrometry For ITER

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Materials: via Indico sever:



CW Conditioning Of The High Power RFQ And Its RF Power Couplers For The Linear IFMIF Prototype Accelerator (LIPac)

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Materials: via Indico sever: 

Progress Of Engineering Design Activities For Fusion Neutron Source A-FNS

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Materials: via Indico sever:



Optical Design And Prototype Tests Of The ITER Equatorial EC H&Cd Launcher

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Materials: via Indico sever:



Development Of High-Power Long-Pulse Multi-Frequency Transmission Line For The JT-60SA ECH&CD System

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Materials: via Indico sever:



Scenario Of Tritium Decontamination For Plasma Facing Areas In DEMO

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Materials: via Indico sever: 

Remote Maintenance Compatibility Design For JA DEMO

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Materials: via Indico sever:



Radio Frequency Discharge Effects On Negative Ion Source For Neutral Beam Injector

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Materials: via Indico sever:



Studies Of ETG Transport On NSTX Plasmas With Gyrokinetics And Reduced Transport Models

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Materials: via Indico sever:



The Importance Of Phase Dynamics In Generation Of Coherent Structures

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Materials: via Indico sever: 

Rapid Model-Based Scenario Optimization Using Machine Learning: Reducing Computational Time While Preserving Prediction Accuracy By Surrogate Modeling

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Materials: via Indico sever:



Nonlinear Gyrokinetic Modelling Of High Confinement Negative Triangularity Plasmas

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Materials: via Indico sever: 

Fusion Synthesis Engine: A Next Generation Framework For Integrated Design Of Fusion Pilot Plants

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Materials: via Indico sever:



A Neoclassical Solver For The Transport Equations Of Phase Space Zonal Structures Of Energetic Particles

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Materials: via Indico sever:



Nonlinearities In Magnetic Confinement, Ionospheric Physics And Population Explosion Leading To Profile Resilience

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IAEA-CN-316-2025

Materials: via Indico sever:



Phase Space Transport And Emulators In ITG Turbulence

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Materials: via Indico sever:



How Coherent Structure Accelerates Turbulence Spreading: A 'Trapping-Hopping' Mechanism

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Materials: via Indico sever:



A Gaussian Process Surrogate Model For The Properties Of Micro-Tearing Modes In Spherical Tokamaks.

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IAEA-CN-316-2064

Materials: via Indico sever:



Toroidal Modeling Of 3D Field Perturbations Generated By Biasing Current In SOL Region In H-Mode Discharge In HL-2A

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IAEA-CN-316-2114

Materials: via Indico sever:



Integrated Simulation Study On The Control Mechanisms Of Edge Localized Modes By Mixture Supersonic Molecular Beam Injection On HL-2A

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IAEA-CN-316-2191

Materials: via Indico sever:



Simultaneous Optimal Regulation Of Kinetic+Magnetic Scalar Plasma Properties For Robust Sustainment Of Advanced Scenarios In NSTX-U

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IAEA-CN-316-2198

Materials: via Indico sever:



Hybrid Model Predictive Control Of The Current Profile In NSTX-U

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IAEA-CN-316-2205

Materials: via Indico sever:



Reinforcement Learning For Plasma Control In Tokamaks

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IAEA-CN-316-2206

Materials: via Indico sever:



Nubeam Surrogate Models Based On MLP, CNN, And Parallel CNN-LSTM Neural Network Architectures

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IAEA-CN-316-2212

Materials: via Indico sever:



Conceptual Design Of An Innovative Set Of ELM Control Coils For The TCABR Tokamak

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IAEA-CN-316-2213

Materials: via Indico sever:



Simulations Of EDGE/SOL Characteristics Including Neutral Dynamics In Limiter Plasmas Of ADITYA-U Tokamak

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IAEA-CN-316-2230

Materials: via Indico sever: 

Efficient X-I Eccd Non-Inductive Plasma Current Start-Up And Ramp-Up For Fusion Reactor

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Materials: via Indico sever:



Toroidal Modeling Of Plasma Flow Damping And Density Pump-Out By Rmp During ELM Mitigation In HL-2A

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IAEA-CN-316-2246

Materials: via Indico sever:



Simulations Of Unmitigated And Mitigated ITER Disruptions With Improved Halo Model In TSC

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IAEA-CN-316-2253

Materials: via Indico sever:



Integrated Real-Time Control On The MAST Upgrade Tokamak

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IAEA-CN-316-2275



Materials: via Indico sever:

Suppression Of Drift Displacements Of The Pellet-Produced Plasmoid In The Presence Of Fast Electrons

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Materials: via Indico sever:



Towards Density Profile Regulation Via Pellet Injection In Tokamaks Following A Hybrid Model Predictive Control Approach

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IAEA-CN-316-2291

Materials: via Indico sever:



First Stage Of Time-Dependent Plasma And Material Model Integration To Address Dynamic Recycling In Divertors

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IAEA-CN-316-2292

Materials: via Indico sever:



Comparison Of Divertor Heat Loads And Access To Detachment For N=3 And N=4 Toroidal Mode Rmp Scenarios In The ITER Pre-Fusion Power Operation Configuration

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IAEA-CN-316-2307

Materials: via Indico sever:



Predictive Acceleration Of Solps-ITER Simulations Of The Tokamak Plasma Boundary Using Data-Driven Projective Integration

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IAEA-CN-316-2311

Materials: via Indico sever:



European Edge Fluid Modelling Tools For Self-Consistent Reactor Relevant Conditions

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IAEA-CN-316-2319

Materials: via Indico sever:



Deep Neural Network Reconstruction Model Of Poloidal Flux With Measured Signals On EAST

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IAEA-CN-316-2341

Materials: via Indico sever:



Multi-Staged ERO2.0 Simulation Of Material Erosion And Deposition In Recessed Mirror Assemblies In JET And ITER

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IAEA-CN-316-2372

Materials: via Indico sever:



Calculation Of Alpha Particle Slowing Down For CFETR Plasma

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IAEA-CN-316-2380

Materials: via Indico sever:



Integral Approach To Plasma-Wall Interaction Modelling For EU-DEMO

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IAEA-CN-316-2409

Materials: via Indico sever:



Integration Of RF Sheath Modeling To Whole Device ICRF Actuator Simulation

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IAEA-CN-316-2416

Materials: via Indico sever:



Non-Linear Shattered Pellet Injection Simulations Based On ASDEX Upgrade Experiments

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IAEA-CN-316-2430

Materials: via Indico sever:



Overview Of Material Migration And Fuel Retention In The Full Tungsten Tokamak West After The First Phase Of Operation

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IAEA-CN-316-1821

Materials: via Indico sever:



West First Experiments With An ITER Grade Tungsten Divertor

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IAEA-CN-316-2392

Materials: via Indico sever:



Comprehensive Study Of Tritium Retention In Gaps Of Bulk Tungsten Lamellae Divertor Tiles And Castellated Beryllium Limiters From JET With ITER-Like Wall

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IAEA-CN-316-1706

Materials: via Indico sever:



Recent Progress Of JT-60SA Project Toward Plasma Operation

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IAEA-CN-316-1679



Materials: via Indico sever:

Recovery From Wall Saturation Using Temperature Control Of Plasma Facing Wall On QUEST

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IAEA-CN-316-1743

Materials: via Indico sever:



Confinement, Heating And Current Drive In Spherical Tokamak Globus-M2 With High Magnetic Field

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IAEA-CN-316-1638

Materials: via Indico sever:



Edge-Core Coupling Emerging From Neutral Particle Control By Divertor Pumping

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IAEA-CN-316-1798

Materials: via Indico sever:



Overview Of Multi-Scale Turbulence Studies Covering Ion To Electron Scales In Magnetically Confined Fusion Plasma

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IAEA-CN-316-1734

Materials: via Indico sever:



Electron And Ion Scale Gyrokinetic Turbulent Transport Studies In JET-ILW H-Mode Pedestals

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IAEA-CN-316-1842

Materials: via Indico sever:



[Rapporteur] Overview Of Achievements Of The IFMIF/EVEDA Project

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IAEA-CN-316-1681

Materials: via Indico sever: 

[Rapporteured] The Dones Programme: Status And Next Steps

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IAEA-CN-316-2058

Materials: via Indico sever:



Impact Of Rotational Transform And Internal Magnetic-Islands On Electron Temperature Gradients And Plasma Confinement In Wendelstein 7-X

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IAEA-CN-316-1834

Materials: via Indico sever:



Relation Between Pedestal Evolution And Edge Particle Sources In Tokamaks

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IAEA-CN-316-1867

Materials: via Indico sever:



Role Of Edge Turbulence In Pedestal Evolution And Collapse Of KSTAR H-Mode Plasmas

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Materials: via Indico sever:



Physics Basis And Technology Development For The ITER Disruption Mitigation System

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IAEA-CN-316-2302

Materials: via Indico sever:



Impact Of Ionization And Transport On Pedestal Density Structure In DIII-D And C-Mod

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IAEA-CN-316-1897

Materials: via Indico sever:



Lessons Learned From European And Japanese Productions Of ITER Toroidal Field Coils

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IAEA-CN-316-2365

Materials: via Indico sever:



Characterizing Core And Edge Turbulence Regimes With Fluctuation Imaging Diagnostics In Wendelstein 7-X

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IAEA-CN-316-2397

Materials: via Indico sever:



Lessons Learned From ITER Central Solenoid Manufacturing

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IAEA-CN-316-2308

Materials: via Indico sever:



Automated W7-X Sawtooth Crash Analysis And Characterization

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IAEA-CN-316-1789

Materials: via Indico sever:



Challenges And Lessons Learnt During Manufacturing, Transportation And Assembly Of The ITER Cryostat

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IAEA-CN-316-2192

Materials: via Indico sever:



Lessons Learned In The Management Of The Production Of The Poloidal Field Coils (And Other Coils)

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IAEA-CN-316-2390

Materials: via Indico sever:



Comparison Of MHD Onset Conditions In JET-ILW Experiments In D, T And D-T

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IAEA-CN-316-1833

Materials: via Indico sever:



Correction Coil And Magnet Feeder Lessons Learned

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IAEA-CN-316-2437



Materials: via Indico sever:

Application Of Non-Axisymmetric Magnetic Field For Control Of Alfvén Eigenmodes In KSTAR

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IAEA-CN-316-1857

Materials: via Indico sever:



Turbulence-Driven Vortex-Flow: Island-Induced Internal Transport Barrier

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IAEA-CN-316-1634

Materials: via Indico sever:



Self-Consistent Predictions And Assessment Of Core Plasma Performance In The Flat Top Phase Of Burning Plasmas

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Materials: via Indico sever:



Validation Of D-T Fusion Power Prediction Capability Against 2021 JET D-T Experiments

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IAEA-CN-316-1662

Materials: via Indico sever:



Nonlinear Equilibria And Phase Space Transport In Burning Plasmas

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IAEA-CN-316-1721

Materials: via Indico sever:



Plasma Beta Dependence Of Turbulent Transport Suggesting An Advantage Of Weak Magnetic Shear

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IAEA-CN-316-1724

Materials: via Indico sever:



Stabilization Of Ion Gyroradius Scale Instabilities And The Isotope Effect Due To Electron Temperature Gradient Turbulence

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IAEA-CN-316-1729

Materials: via Indico sever:



Turbulent Particle Pinch In Gyrokinetic Flux-Driven Itg/Tem Turbulence

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IAEA-CN-316-1735

Materials: via Indico sever:



Emission Of Ion-Cyclotron-Range-Of-Frequency Wave In Electron-Cyclotron-Resonance-Heated Plasma On JT-60U

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IAEA-CN-316-1738

Materials: via Indico sever:



Development Of Integrated Turbulence Diagnostic Simulator And Its Application To Torus Device Measurements

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IAEA-CN-316-1739

Materials: via Indico sever:



A New Type Of Self-Sustained Divertor Oscillation Driven By Magnetic Island Dynamics In Large Helical Device

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IAEA-CN-316-1745

Materials: via Indico sever:



Optimization Of Fast Electron Generation For Efficient Lower-Hybrid Wave Plasma Start-Up On The TST-2 Spherical Tokamak

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IAEA-CN-316-1748

Materials: via Indico sever:



Divertor Enrichment Of Recycling Impurity Species (He, N₂, Ne, Ar, Kr) In ASDEX Upgrade

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IAEA-CN-316-1750

Materials: via Indico sever:



Heat And Particle Exhaust In High-Performance Plasmas In Wendelstein 7-X

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IAEA-CN-316-1752

Materials: via Indico sever:



External Control Of Stiff Energetic-Ion-Profile With Alfven Eigenmode Activities

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IAEA-CN-316-1756

Materials: via Indico sever:



Electron Cyclotron Current Start-Up With Retarding Electric Field In The QUEST Spherical Tokamak

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IAEA-CN-316-1762

Materials: via Indico sever:



Behaviour Of Plasma Impurities In Long Pulse Scenarios At W7-X

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IAEA-CN-316-1764

Materials: via Indico sever:



Confinement Characterization Against Rotational Transform On The Heliotron J Configuration Control Experiment

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IAEA-CN-316-1768

Materials: via Indico sever:



Detection Of Alpha Heating In JET-ILW DT Plasmas By A Study Of The Electron Temperature Response To ICRH Modulation

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IAEA-CN-316-1774

Materials: via Indico sever:



Geometry Meets Feedback Loops: Shearing And Turbulence Self-Regulation In Negative Triangularity Tokamaks

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IAEA-CN-316-1776

Materials: via Indico sever:



Theory Of Heat Load Broadening By Entrainment: Formulating A Cost-Benefit Analysis For Turbulent Pedestals

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IAEA-CN-316-1777

Materials: via Indico sever:



Power Scaling Of The Density Limit And Particle Transport Events

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Materials: via Indico sever:



Validation Of Plasma Response And Turbulence Simulation Across KSTAR Core Magnetic Islands.

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IAEA-CN-316-1781

Materials: via Indico sever:



Effects Of Magnetic And Electrostatic Fluctuations On ECH Supra-Thermal Electron Behavior And Toroidal Torque In Tokamak Plasma

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IAEA-CN-316-1783

Materials: via Indico sever:



Turbulence Transition And Its Role In Isotope Effects Of LHD

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IAEA-CN-316-1788

Materials: via Indico sever:



Detection Of High-Energy Fast Ions In LHD And Prospects For Quantitative Validation Of Neoclassical Fast-Ion Transport Calculations

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IAEA-CN-316-1808

Materials: via Indico sever:



A Numerically Validated Gyrokinetic Turbulent Transport Representation And Its Application To Trace Heavy Ion Transport

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IAEA-CN-316-1810

Materials: via Indico sever:



Development Of A Coil-Shaping-Based Optimization Code For Magnetic Fusion Device

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IAEA-CN-316-1811

Materials: via Indico sever:



Origin Of Profile Constraint In Toroidal Plasmas With Different Magnetic Structures Leading To Transport Barrier

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IAEA-CN-316-1812

Materials: via Indico sever:



Effect Of Shaping On Confinement: An Analytical Model

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IAEA-CN-316-1813

Materials: via Indico sever:



Gyrokinetic Simulations Of GAM-Turbulence Interplay In The FT-2 Tokamak Using GENE Simulations

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IAEA-CN-316-1827

Materials: via Indico sever:



Expansion Of Stable Operating Space For High Plasma Current Toward ITER-Relevant Regime In KSTAR

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IAEA-CN-316-1831

Materials: via Indico sever: 

Observation Of Alpha Particles In D-T And T-Plasmas On JET

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IAEA-CN-316-1836

Materials: via Indico sever:



Prediction Of Transport In The JET DTE2 Discharges With The Tglf And Neo Models Using The Tgyro Transport Code

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IAEA-CN-316-1846

Materials: via Indico sever:



Core Performance Predictions With Nonlinear Gyrokinetics And Implications To Scope Burning-Plasma Tokamaks

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IAEA-CN-316-1847

Materials: via Indico sever:



On The Development Of An Operational Regime With High Normalized Density And Confinement For ITER And Attractive Fusion Pilot Plant

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IAEA-CN-316-1849

Materials: via Indico sever:



Observation Of Stationary Double Transport Barriers In KSTAR

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IAEA-CN-316-1851

Materials: via Indico sever:



Core Transport Modeling And Characterization For Compact Tokamak Reactor Scenarios

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Materials: via Indico sever: 

Preparation Of Lower Hybrid Fast Wave Current Drive Research On KSTAR

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IAEA-CN-316-1855

Materials: via Indico sever:



Toroidal Rotation Characteristics For Ohmic And Ech Plasmas In KSTAR

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Materials: via Indico sever:



Bayesian Approach For Uncertainty Quantification And Data-Efficient Optimization In Fusion Research

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Materials: via Indico sever:



Predictive Equilibrium Reconstruction Of DIII-D H-Mode Plasmas

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IAEA-CN-316-1864

Materials: via Indico sever:



Novel Numerical Methods For Gyrokinetic Whole Device Modelling Of Tokamak Plasma

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IAEA-CN-316-1874

Materials: via Indico sever:



Experiments On Plasma Detachment In A V-Shaped Slot Divertor

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IAEA-CN-316-1907

Materials: via Indico sever:



Evolution Of Intermittent Filaments In The Scrape-Off Layer Of NSTX

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IAEA-CN-316-1912

Materials: via Indico sever:



Divertor Detachment And Reattachment With Mixed Impurity Seeding On ASDEX Upgrade And JET

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IAEA-CN-316-1951

Materials: via Indico sever:



Reducing Plasma-Material Interactions In The DIII-D Low-Z And High-Z Divertors With Impurity Powders

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IAEA-CN-316-1956

Materials: via Indico sever:



First Application Of The Island Divertor Configuration In The J-Text Tokamak

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IAEA-CN-316-1967

Materials: via Indico sever:



Variable Gas-Baffling In The TCV Divertor

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IAEA-CN-316-1979

Materials: via Indico sever:



Calorimetry Measurement For The Energy Balance And Energy Distribution In West For L-Mode Plasmas

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IAEA-CN-316-1981

Materials: via Indico sever:



Interpretive Modeling Using SOLPS-ITER For Pumping Experiments With A Closed Divertor

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IAEA-CN-316-1995

Materials: via Indico sever:



Development Of The Turbulence-Transport Coupling Simulation Framework For The Edge Plasma

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IAEA-CN-316-2232

Materials: via Indico sever:



Simulation Study Of The Influence Of E \tilde{A} B Drift On Heat Flux Width

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IAEA-CN-316-2234

Materials: via Indico sever:



Simulations Of Inboard Limited Scrape Off Layer Plasma Operations In ADITYA-Upgrade Tokamak

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IAEA-CN-316-2242

Materials: via Indico sever: 

Modelling Of The Effects Of Drifts On The Tungsten Impurity Transport And Core Accumulation On EAST By Developing A Kinetic Impurity Transport Code

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IAEA-CN-316-2254

Materials: via Indico sever:



Fast Ion Studies In The Extended High-Performance High \hat{I}_p Plasma On EAST

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IAEA-CN-316-2357

Materials: via Indico sever:



Progress On Physics And Engineering Of SCR-1 Stellarator

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IAEA-CN-316-2439

Materials: via Indico sever:



[Regular Poster Twin] First Tungsten Radiation Studies And Non-Linear Oscillations In DIII-DâS ITER Baseline DEMONstration Discharges

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IAEA-CN-316-2493



Materials: via Indico sever:

[Regular Poster Twin] Negative Triangularity Scenarios: From TCV And AUG Experiments To Dtt Predictions

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IAEA-CN-316-2496

Materials: via Indico sever:



[Regular Poster Twin] Susceptibility Of Rmp-Driven, ELM-Crash-Suppression To Radiatively Controlled Scrape-Off-Layers (SOL), And Its Impact On Divertor

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IAEA-CN-316-2497

Materials: via Indico sever:



[Regular Poster Twin] Negative Triangularity Tokamak Operation In TCV

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IAEA-CN-316-2498

Materials: via Indico sever:



[Regular Poster Twin] Assessment Of Negative Triangularity As A Reactor Scenario In DIII-D

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IAEA-CN-316-2499

Materials: via Indico sever:



[Regular Poster Twin] Energy-Selective Confinement Of Alpha Particles During Benign Sawtooth Crashes In A Large Tokamak Plasma

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IAEA-CN-316-2501

Materials: via Indico sever:



[Regular Poster Twin] Fast Ion Effects On Internal Transport Barrier Formation In KSTAR Plasmas

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IAEA-CN-316-2502

Materials: via Indico sever:



[Regular Poster Twin] Saturation Of Fishbone Instability By Self-Generated Zonal Flows In Tokamak Plasmas

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IAEA-CN-316-2503

Materials: via Indico sever:



[Regular Poster Twin] Mitigation Of Toroidal Alfven Eigenmodes In Negative Triangularity Plasmas At TCV

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IAEA-CN-316-2504

Materials: via Indico sever:



[Regular Poster Twin] Prediction Of Energetic Particle Confinement In ITER Operation Scenarios

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IAEA-CN-316-2505

Materials: via Indico sever:



Role Of Turbulent Separatrix Tangle In The Improvement Of The Integrated Pedestal/Heat-Exhaust Issue For Stationary Operation In ITER And Fusion Reactors

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IAEA-CN-316-2299

Materials: via Indico sever:



A Detailed Study Of The Interaction Between The High Harmonic Fast Wave And The Scrape-Off Layer Region In NSTX/NSTX-U Plasmas

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IAEA-CN-316-1841

Materials: via Indico sever:



Kinetic Simulations Of Pedestal Fueling Asymmetry And Implication For Scrape-Off Layer Flows

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IAEA-CN-316-2384

Materials: via Indico sever:



Linear Modelling Of Electron Bernstein Current Drive In Step

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IAEA-CN-316-1613

Materials: via Indico sever:



Theoretical Scaling Of The Operational Density Limit In Tokamaks And Comparison To Experimental Data

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IAEA-CN-316-1994

Materials: via Indico sever:



Broadening Of EC Power Deposition And Driven Current Profiles Caused By Dissipative Propagation

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IAEA-CN-316-1680

Materials: via Indico sever:



A Gyrokinetics-Based Model For Predicting Pedestal Width Scaling At Arbitrary Aspect Ratio

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IAEA-CN-316-2325

Materials: via Indico sever:



Tokes Simulations Of First Wall And Divertor Damage During Unmitigated Disruptions On ITER

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IAEA-CN-316-2152

Materials: via Indico sever:



On The Possibility Of X-Point Radiation Regime For ITER-Like Tokamaks

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IAEA-CN-316-1635

Materials: via Indico sever:



Validation Of The Ero2.0 Code Using W7-X And JET Experiments And Predictions For ITER Operation

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IAEA-CN-316-2059

Materials: via Indico sever:



Effects Of Plasma Shape On The Intrinsic Rotation Generation By Parity Change

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IAEA-CN-316-1920

Materials: via Indico sever: 

Compression Of Solid Spherical Fuel For Fast Ignition Based Inertial Fusion Energy

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IAEA-CN-316-1736

Materials: via Indico sever:



Plasma Profile Prediction In NSTX Discharges Using The Updated Multi-Mode Anomalous Transport Module

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IAEA-CN-316-1957

Materials: via Indico sever: 

Diagnosing Inertial Confinement Fusion Ignition

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IAEA-CN-316-2347

Materials: via Indico sever:



The Importance Of The Polarization Drift For Turbulent Transport In Tokamak Devices

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IAEA-CN-316-1884

Materials: via Indico sever:



Predictions Of Performance Variations In Inertial Confinement Fusion Experiments At The National Ignition Facility

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IAEA-CN-316-1616

Materials: via Indico sever:



Deep Learning-Based Acceleration Of Multi-Species Fokker-Planck-Landau Collision Operator For Fusion Plasma Simulation

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IAEA-CN-316-1886

Materials: via Indico sever:



80 Beams, 270 kJ ICF Implosions On LMJâPETAL

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IAEA-CN-316-2358

Materials: via Indico sever:



Results From The Eurofusion Enabling Research Project "Advancing Shock Ignition For Direct-Drive Inertial Fusion"

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IAEA-CN-316-2284

Materials: via Indico sever:



Electromagnetic Instabilities In High δ Tokamaks

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IAEA-CN-316-1942

Materials: via Indico sever:



Wave-Particle Interactions In Tokamaks

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IAEA-CN-316-1602

Materials: via Indico sever:



Destabilization Of Geodesic Acoustic-Like Mode In The Presence Of A Poloidally Inhomogeneous Source In A Tokamak Plasmas

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IAEA-CN-316-1607

Materials: via Indico sever:



Kinetic-Magnetohydrodynamic Hybrid Simulation Study Of Energetic-Particle Driven Off-Axis Fishbone Instability In Tokamak Plasmas

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IAEA-CN-316-1657

Materials: via Indico sever:



Investigation Of Alpha Particle Transport Induced By Alfvén Eigenmodes In CFETR

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IAEA-CN-316-1675

Materials: via Indico sever:



Non-Linear Benchmark Between HYMAGYC, MEGA, ORB5 And XTOR-K Codes Using The NLED-Aug Test Case To Study Alfvénic Modes Driven By Energetic Particles

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IAEA-CN-316-1701

Materials: via Indico sever:



Stability Analysis Of Plasma Waves Driven By Runaway Electrons In Tokamak Hot Plasmas

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IAEA-CN-316-1702

Materials: via Indico sever:



Anomalous Power Deposition In Second Harmonic ECRH Experiments Due To Parametric Decay Instability

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IAEA-CN-316-1803

Materials: via Indico sever:



Recent Advanced Of CFQS Stellarator Construction And Predictive Studies Towards Proof-Of-Principle Of Magnetic Configuration Embedded With Magnetic Symmetry Of Tokamak

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IAEA-CN-316-1815

Materials: via Indico sever:



Maasive Parametric Study For Prospective Design Space Of A Compact Tokamak Fusion Reactor

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IAEA-CN-316-1816

Materials: via Indico sever: 

Performance Of The Wendelstein 7-X ECRH Plant During The Second Operational Phase

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IAEA-CN-316-1818

Materials: via Indico sever:



Recent Linear IFMIF Prototype Accelerator (LIPAc) Maintenance And Reliability Improvements And Future Lipac Upgrades

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IAEA-CN-316-1822

Materials: via Indico sever: 

Integrated Modelling Of Anisotropic Neutron Yields Of Classical And Spherical Tokamaks

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IAEA-CN-316-1824

Materials: via Indico sever:



Qualification Of EUROFER97 And Design Rule Validation For ITER TBM: EUROfusion Contribution

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IAEA-CN-316-1826

Materials: via Indico sever:



First Operation And Validation Of Simulations For The Divertor Cryo-Vacuum Pumps In W7-X

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IAEA-CN-316-1830

Materials: via Indico sever:



Fusion Decommissioning And Regulation Tech-L&S (UK-STEP Perspectives)

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IAEA-CN-316-1832

Materials: via Indico sever: 

Overview Of The Final Design Of The Visible And Infrared Wide Angle Viewing System Diagnostic For ITER In Equatorial Port 12

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IAEA-CN-316-1835

Materials: via Indico sever:



Recent Breakthrough In Modeling Transport Processes In A Liquid Metal Blanket

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IAEA-CN-316-1844

Materials: via Indico sever:



High Technologies Developed For ITER Divertor Thomson Scattering And Their Experimental Testing

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IAEA-CN-316-1845

Materials: via Indico sever:



On The Validation Of Neutron-Irradiation Simulation In W

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IAEA-CN-316-1860



Materials: via Indico sever:

Helium Cooling System For DEMO R & D

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IAEA-CN-316-1869

Materials: via Indico sever:



Systematic Analysis Of Turbulence: Component Extraction Of The Density Fluctuations And Study Of Their Dynamics For Different Regimes

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IAEA-CN-316-1870



Materials: via Indico sever:

The Step Microwave Heating And Current Drive System

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IAEA-CN-316-1876

Materials: via Indico sever:



A Validation Study Of A Turbulence Simulation Model With Bounce-Kinetic Electrons Using A KSTAR L-Mode Plasma

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IAEA-CN-316-1878

Materials: via Indico sever:



Analysis Of Fusion Alphas Interaction With RF Waves In D-T Plasma At JET

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IAEA-CN-316-1881

Materials: via Indico sever:



Beam Optics Of RF Ion Sources In View Of ITER'S NBI Systems

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IAEA-CN-316-1882

Materials: via Indico sever:



EU-DEMO Magnets Cryogenics And Thermohydraulics Analyses: Strategy, Status And Comparison

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IAEA-CN-316-1883

Materials: via Indico sever:



Plasma Characterisation And Wall Conditioning Studies On The Tomas Device

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IAEA-CN-316-1890

Materials: via Indico sever:



High-Fidelity Performance Predictions For Tokamaks And Stellarators: From Existing Devices To Burning Plasma Experiments

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IAEA-CN-316-1892

Materials: via Indico sever:



Characterization Of ECRH Plasmas In Tomas

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IAEA-CN-316-1894

Materials: via Indico sever:



Progress In Modeling D/T Component Flows In Tokamak-Based FNS Fueling System

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IAEA-CN-316-1899

Materials: via Indico sever:



Fusion Reaction Rate And Fast Ion Distribution Functions Studied With Nuclear Radiation Spectroscopy In The Three Ion D-(DNBI)-3He Scenario At JET

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IAEA-CN-316-1902



Materials: via Indico sever:

Progress Toward Continuous Pellet Injection Systems For Fueling Of Long Pulse Stellarators And Tokamaks

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IAEA-CN-316-1903

Materials: via Indico sever:



Development Of JT-60SA TF Feeder Model With Tactics Tool For Support To Thermal-Thermohydraulic Analyses Of Terminal Joint Temperature Margin

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IAEA-CN-316-1904

Materials: via Indico sever:



Impact Of Cold Spray Parameters On Deuterium Trapping In Tantalum Coatings

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IAEA-CN-316-1905

Materials: via Indico sever:



Improvement And Validation Of Plasma Initiation Model For Versatile Experiment Spherical Torus

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IAEA-CN-316-1906

Materials: via Indico sever:



Decaf Cross-Device Exploration Of Disruption Characterization Indicated By Abnormalities In Plasma Current And Vertical Position

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IAEA-CN-316-1909

Materials: via Indico sever:



Global Gyrokinetic Simulations Of Turbulent Transport In Stellarators With Kinetic Electrons

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IAEA-CN-316-1911

Materials: via Indico sever: 

Origin Of The Up-Down Asymmetric Dependence Of Edge-Localized Mode Control In ITER-Like Resonant Magnetic Perturbation Configuration

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IAEA-CN-316-1916

Materials: via Indico sever:



ExB Vortex Dynamics And Its Influence On Turbulence In A Magnetic Island

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IAEA-CN-316-1923

Materials: via Indico sever:



Correlation Study Between Edge Kink-Like Mode And Density Pump-Out By RMP In KSTAR

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IAEA-CN-316-1924

Materials: via Indico sever:



Latest Insights From EU-DEMO Activation Assessments

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IAEA-CN-316-1928



Materials: via Indico sever:

Hydrogen Isotopic Ratio By Residual Gas Analysis During The JET DT Campaigns

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IAEA-CN-316-1931

Materials: via Indico sever:



UKAEA's Irradiated Superconductor And Magnet Materials Testing

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IAEA-CN-316-1933

Materials: via Indico sever:



Feasibility Of DEMO Dust DE-Tritiation To Refabrication Or Safety Disposal

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IAEA-CN-316-1934

Materials: via Indico sever:



Advanced Transport Models For Energetic Particles

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IAEA-CN-316-1937

Materials: via Indico sever:



Developments Towards High-Beta, Long-Pulse Scenarios In TCV And MAST-U

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IAEA-CN-316-1939

Materials: via Indico sever:



Control Of Plasma Density And Isotope Mix By Peripheral Fuelling Pellets In JET D-T Experiments

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IAEA-CN-316-1940

Materials: via Indico sever:



Benign Termination Of Runaway Electron Beams In The Eurofusion Tokamak Exploitation Workprogram

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IAEA-CN-316-1947

Materials: via Indico sever:



Modelling And Development Of Ceramics For Tritium Breeding In Fusion Systems

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IAEA-CN-316-1949

Materials: via Indico sever: 

MHD Islands Tracking Via Oblique ECE

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IAEA-CN-316-1950

Materials: via Indico sever:



Helicon Wave Physics On Linear And Toroidal Basic Plasma Physics Devices

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IAEA-CN-316-1959

Materials: via Indico sever: 

A New Design Tool For Startup In Large Tokamaks With Superconducting Coils

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IAEA-CN-316-1963

Materials: via Indico sever:



Pre-Ionization And Plasma Startup Experiments Relevant To Fusion Devices Using Spiral Antenna In Appel-Device

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IAEA-CN-316-1964

Materials: via Indico sever:



Integrated Numerical Analysis Of The Impurity Transport And Source In DT JET-ILW Discharges

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IAEA-CN-316-1966

Materials: via Indico sever:



Surface Temperature Measurement From Infrared Synthetic Diagnostic In Preparation For ITER Operations

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IAEA-CN-316-1968

Materials: via Indico sever: 

Unravelling The Effects Of Surface Roughness On Sputtering: New Insights For Conventionally Rough And Nano-Structured Topographies

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IAEA-CN-316-1970

Materials: via Indico sever:



Implications Of T Loss In First Wall Armor And Structural Materials On T-Self-Sufficiency In Future Burning Fusion Devices

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IAEA-CN-316-1971

Materials: via Indico sever: 

First Hibp Measurement Of Plasma Potential Evolution In Co-NBI Heated Tuman-3M Plasma

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IAEA-CN-316-1973

Materials: via Indico sever:



Computational Models For Massive Material Injection In Tokamaks, Recent Developments In The JOREK Code

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IAEA-CN-316-1977

Materials: via Indico sever:



200 kW, 1 Mhz Dual Directional Coupler: Design And Characterization

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IAEA-CN-316-1980

Materials: via Indico sever:



The Isotope Effect On Core Heat Transport In JET-ILW Ohmic Plasmas In Hydrogen, Deuterium And Tritium

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IAEA-CN-316-1982

Materials: via Indico sever:



Active Control Of Alfvén Eigenmodes By Externally Applied 3D Magnetic Perturbations

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IAEA-CN-316-1984

Materials: via Indico sever:



Development Of Preventive And Active Protection Systems For Paschen Discharge Mitigation For JT-60SA

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IAEA-CN-316-2004

Materials: via Indico sever:



Influence Of Confinement Magnets On Negative Ion Source Performance

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IAEA-CN-316-2009

Materials: via Indico sever:



Overview Of The OLMAT High Heat Flux Facility Activities Testing Liquid And Solid Metal Targets For Their Use As Divertor Materials

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IAEA-CN-316-2012

Materials: via Indico sever:



Multiobjective Lifecycle Budget Allocation For Fusion Power Plant Installation

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IAEA-CN-316-2017

Materials: via Indico sever:



Realization Of Beam Line Components For ITER DNB System- Lessons Learnt

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IAEA-CN-316-2019

Materials: via Indico sever:



UKAEA Collaborations On Extreme Scale Computing For Fusion

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IAEA-CN-316-2028

Materials: via Indico sever:



Leveraging The SPARC Experience To Establish Appropriate Regulatory Treatment For Future Fusion Power Plants

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IAEA-CN-316-2032

Materials: via Indico sever:



Actuator-Sharing Algorithm For Simultaneous Regulation Of Multiple Plasma Properties With Coupled Dynamics

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IAEA-CN-316-2113

Materials: via Indico sever:



The M3D-C1 Code As A Tool For Design Validation And Whole-Device Modeling

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IAEA-CN-316-2151

Materials: via Indico sever:



Runaway Electron Dynamics In ITER Disruptions With Shattered Pellet Injection

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IAEA-CN-316-2158

Materials: via Indico sever:



Excitation Of Compressional Alfvén Eigenmodes In Tokamak Disruptions And Impact On Runaway Electron Transport

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IAEA-CN-316-2176

Materials: via Indico sever:



[Regular Poster Twin] Challenges And Lessons Learnt During Manufacturing, Transportation And Assembly Of The ITER Cryostat

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IAEA-CN-316-2508

Materials: via Indico sever:



[Regular Poster Twin] Physics Basis And Technology Development For The ITER Disruption Mitigation System

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IAEA-CN-316-2509

Materials: via Indico sever:



[Regular Poster Twin] Lessons Learned From ITER Central Solenoid Manufacturing

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IAEA-CN-316-2510

Materials: via Indico sever:



[Regular Poster Twin] Lessons Learned From European And Japanese Productions Of ITER Toroidal Field Coils

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IAEA-CN-316-2511

Materials: via Indico sever:



[Regular Poster Twin] Lessons Learned In The Management Of The Production Of The Poloidal Field Coils (And Other Coils)

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IAEA-CN-316-2512

Materials: via Indico sever:



[Regular Poster Twin] Correction Coil And Magnet Feeder Lessons Learned

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IAEA-CN-316-2513

Materials: via Indico sever:



Overview Related To Manufacturing, Testing And Installation Of The Full Tungsten Actively Cooled ITER-Like Divertor In The West Tokamak

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IAEA-CN-316-1989

Materials: via Indico sever:



The Divertor Tokamak Test Facility: Engineering And Technology Integration Challenges

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IAEA-CN-316-2071

Materials: via Indico sever: 

Origin Of The L-H Threshold Isotope Effect In DIII-D Hydrogen And Deuterium Plasmas

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IAEA-CN-316-2105

Materials: via Indico sever:



Progress In A US-Based Liquid Metal Plasma-Facing Component Design Activity For A Fusion Nuclear Science Facility

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IAEA-CN-316-2334

Materials: via Indico sever:



Development Of Integrated Plasma Scenarios In MAST-U

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IAEA-CN-316-2015

Materials: via Indico sever:



Progress In Design And Experimental Activities For The Development Of An Advanced Breeding Blanket

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IAEA-CN-316-2089

Materials: via Indico sever:



Impact Of Impurity Injection On Core Confinement In ST40

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IAEA-CN-316-2145

Materials: via Indico sever:



Development And Manufacturing Of Beryllium-Armoring ITER Enhanced Heat Flux Fw Towards Series Production In China

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IAEA-CN-316-2226

Materials: via Indico sever: 

RFX-mod2 Facility Upgrades And Diagnostic Capability Enhancements For The Exploration Of Multi-Magnetic-Configurations

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IAEA-CN-316-2061

Materials: via Indico sever:



Development Of Monolithically Additive Manufactured Lower Hybrid Current Drive Launchers And RF Systems

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IAEA-CN-316-1722

Materials: via Indico sever:



Magnetohydrodynamic Instability Induced Runaway Electron Transport

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IAEA-CN-316-2128

Materials: via Indico sever:



New Diagnostics Developments And Results In Support Of Runaway Electron Studies At European Devices

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IAEA-CN-316-2013

Materials: via Indico sever:



Recent Progress In Runaway Electron Research At TCV

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IAEA-CN-316-2078

Materials: via Indico sever:



L-H Transition Physics Results From Recent Tritium And Deuterium-Tritium Campaigns At JET

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Materials: via Indico sever:



Experimental Investigation Of The Physics & Performance Of The MAST-Upgrade Super-X Divertor

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IAEA-CN-316-2103

Materials: via Indico sever:



Improved Pedestal Performance Utilizing Resonant Magnetic Perturbations And Edge Localized Electron Cyclotron Current Drive

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IAEA-CN-316-1585

Materials: via Indico sever:



Enhancement Of Plasma Boundary Stochastization And Its Profound Impacts On Access Of Divertor Detachment In High-Beta Plasmas On W7-X And LHD

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IAEA-CN-316-2068

Materials: via Indico sever:



Recent Progress Of The Reactor-Relevant Intrinsically ELM-Stable Quiescent H-Mode On The DIII-D Tokamak

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IAEA-CN-316-1992

Materials: via Indico sever:



Enhanced Cross-Field SOL Transport In JET Tritium Plasma And Its Impact On Machine Operation

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IAEA-CN-316-2041

Materials: via Indico sever:



Overview Of EDA H-Mode Experiments And Studies In ASDEX Upgrade

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IAEA-CN-316-1804

Materials: via Indico sever:



Identification Of Plasma Conditions Affecting MHD Phenomena In QH-Mode And ELMy H-Mode Plasmas In DIII-D

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IAEA-CN-316-1672

Materials: via Indico sever:



Real-Time ELM Onset Prediction With Deep Neural Networks And High-Bandwidth Edge Fluctuation Measurements

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IAEA-CN-316-2153

Materials: via Indico sever:



Helium Plasma Operations On ASDEX Upgrade And JET In Support Of The Non-Nuclear Phases Of ITER

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IAEA-CN-316-1659

Materials: via Indico sever:



Overview Of Fast Particle Experiments In The First MAST-U Experimental Campaigns

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IAEA-CN-316-2104

Materials: via Indico sever:



Nonlinear Inverse Bremsstrahlung Absorption In Magnetized Laser Fusion Plasma

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IAEA-CN-316-1594

Materials: via Indico sever:



Resistive Wall Tearing Modes In ITER Disruptions

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IAEA-CN-316-1612

Materials: via Indico sever:



Physics-Informed Meta-Instrument For Fusion Energy

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IAEA-CN-316-1640

Materials: via Indico sever:



Advantageous Features Of kJ Petawatt Laser Light For Fast Ignition Scheme Of Laser Fusion

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IAEA-CN-316-1686

Materials: via Indico sever:



Impacts Of 3D Equilibrium On RMP ELM Mitigation In JT-60SA

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IAEA-CN-316-1711

Materials: via Indico sever:



Baseline Design Of The Laser Fusion Research Reactor With A MW Class Laser Facility

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Materials: via Indico sever:



A Novel Scheme Of Laser-Driven Proton-Boron Fusion Under An Ultra-Strong Magnetic Field

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IAEA-CN-316-1716

Materials: via Indico sever:



Simulation Of Resistive Drift-Ballooning Mode Driven ELM Crash In Full Annular Tokamak

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IAEA-CN-316-1725

Materials: via Indico sever:



Second Harmonics Mixed Heating Laser For Fast Ignition Inertial Confinement Fusion

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IAEA-CN-316-1726

Materials: via Indico sever:



Horizontal Homing Laser For High Repetitive Inertial Fusion

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IAEA-CN-316-1728

Materials: via Indico sever:



Formation Of High Areal Density Fuel Core Using An Efficient And Robust Implosion Method For Fast Ignition

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IAEA-CN-316-1740

Materials: via Indico sever:



Non-Linear Gyro-Kinetic Ion Temperature Gradient And Trapped Electron Modes Turbulence Modelling In X-Point Geometry With 3D Fields, Edge Localized Modes And At Negative Or Positive Triangularity Shapes.

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Materials: via Indico sever:



Present Status Of Counter Illuminating Fast Ignition Scheme Experiments Using KJ-Class Ultra-Intense Laser LFEX

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Materials: via Indico sever:



Sawteeth Dynamics In JET Baseline Discharges With Mixtures Of Isotopes

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IAEA-CN-316-1887

Materials: via Indico sever:



Plasma Control For The Step Power Plant

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IAEA-CN-316-1895

Materials: via Indico sever:



Innovative Delta-f PIC Algorithm For Efficient Homogeneous Simulation Of Fusion Plasmas From Core To Edge

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IAEA-CN-316-1908

Materials: via Indico sever:



Simulation Of DIII-D Disruption With Pellet Injection And Runaway Electron Beam

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IAEA-CN-316-1914

Materials: via Indico sever:



Wall Heating By Subcritical Energetic Electrons Generated By The Runaway Electron Avalanche Source

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IAEA-CN-316-1945

Materials: via Indico sever:



Design Development Of Nuclear Grade Vacuum Vessel For Diagnostic Neutral Beam Of ITER

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IAEA-CN-316-1974

Materials: via Indico sever:



Alpha Particle Loss Measurements And Analysis In JET DT Plasmas

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IAEA-CN-316-1991

Materials: via Indico sever:



Investigations Of Alfven Eigenmode Stability Via Active Antenna Excitation In JET Hydrogen, Deuterium, Tritium, DT, And Helium Plasmas

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IAEA-CN-316-1996

Materials: via Indico sever:



Observation Of Microscopic Damage Of Tungsten And Molybdenum Surfaces Due To Helium Glow Discharge Cleaning

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IAEA-CN-316-2010

Materials: via Indico sever:



The Lower Hybrid Frequency Range Wave Emission In The Ohmic Discharge Of The FT-2 Tokamak

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IAEA-CN-316-2018

Materials: via Indico sever:



Comprehensive Approach To Analysis Of Beryllium Limiter Damage By Unmitigated Disruptions And Runaway Electrons In The JET Tokamak With Metal Walls

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IAEA-CN-316-2022

Materials: via Indico sever:



Fundamental ICRF Heating Of Deuterium Ions In JET-DTE2

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IAEA-CN-316-2036

Materials: via Indico sever:



Tungsten Gross Erosion And Plasma Impurity Contamination In West Phase I: A Statistical Comparison Of LH And ICRF-Heated L-Mode Plasmas

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IAEA-CN-316-2045



Materials: via Indico sever:

Shattered Pellet Injection Method Using Multi-Injection System In KSTAR

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IAEA-CN-316-2054

Materials: via Indico sever:



A Modern Framework To Support Disruption Studies: The Eurofusion Disruption Database

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IAEA-CN-316-2057

Materials: via Indico sever:



Simulation Studies Of Lower Hybrid Waves To Understand Lhcd Experiments In SST1 Tokamak

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IAEA-CN-316-2073

Materials: via Indico sever:



Effects Of Neutral Transport And Negative Triangularity On Plasma Scrape-Off Layer Turbulence In Gyrokinetic Simulations

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IAEA-CN-316-2100

Materials: via Indico sever:



Drift-Fluid Simulations Of Tokamak Edge Turbulence With Energy Conservation

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IAEA-CN-316-2101

Materials: via Indico sever:



Complex Spatial Structures Of Fishbone Instabilities Inferred With Multiple Diagnostics In Mast/-U

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IAEA-CN-316-2109

Materials: via Indico sever:



Atomic And Molecular Collisional-Radiative Models Associated With The Eirene Neutral Gas Module

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IAEA-CN-316-2110

Materials: via Indico sever:



First High-Power Helicon Results From DIII-D

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IAEA-CN-316-2111

Materials: via Indico sever:



Software For Fusion Reactor Design: Excalibur Project Neptune - Towards Exascale Plasma Edge Simulations

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IAEA-CN-316-2132

Materials: via Indico sever:



The Impact Of Magnetic Islands On The Bootstrap Current In Large Stellarators

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IAEA-CN-316-2183

Materials: via Indico sever:



Integrated Modelling Of Heating And Current Drive Sources And Diagnostics For ITER

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IAEA-CN-316-2184

Materials: via Indico sever:



Predicting Radio Frequency Heating And Current Drive Profiles With Fast Surrogate Models Powered By Machine Learning

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IAEA-CN-316-2188

Materials: via Indico sever:



Optimization Of Lithium Vapor Box Divertor Evaporator Location On NSTX-U Using SOLPS-ITER

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IAEA-CN-316-2203

Materials: via Indico sever:



Control Of Edge And Sol Plasma Turbulence Using Impurity Seeding And External Bias

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IAEA-CN-316-2217

Materials: via Indico sever:



Physics Of Plasma Blob Formation And Experimental Validation

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IAEA-CN-316-2227

Materials: via Indico sever:



HB11 â" Understanding Hydrogen-Boron Fusion To Progress Towards Novel Energy Sources

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IAEA-CN-316-2286

Materials: via Indico sever:



Comparisson Between Non-Linear Control Systems Of Position And Shape Of The Plasma Column In An Ultra-Low-Aspect Ratio Tokamak

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IAEA-CN-316-2310

Materials: via Indico sever:



Regulation Of Alfvén Eigenmodes By Microturbulence In Fusion Plasmas

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IAEA-CN-316-2312

Materials: via Indico sever:



Reduction Of Plasma Self-Driven Current By Magnetic Island Perturbations In Tokamaks

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IAEA-CN-316-2313

Materials: via Indico sever:



Flexible, Predictive Modeling Of Tokamak Stability, Transport, Equilibrium, And Pedestal Physics

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IAEA-CN-316-2314

Materials: via Indico sever: 

Integration Of Critical-Gradient Model Alfvén Eigenmode-Driven Energetic Ion Transport Predictions Into Whole-Device Modeling Workflows For Fusion Devices

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IAEA-CN-316-2327

Materials: via Indico sever:



Effects Of Alpha Particles On The Turbulent Transport And Zonal Flow Driven By CTEM Turbulence In Burning Plasmas

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IAEA-CN-316-2359

Materials: via Indico sever:



On The Modulation Behaviour And A Possible Existence Criterion For Geodesic Acoustic Modes In Tokamaks

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IAEA-CN-316-2369

Materials: via Indico sever:



SARAS: A Workflow-Based Multi-Physics Simulator For Tokamak Physics And Reactor Design

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IAEA-CN-316-2374

Materials: via Indico sever:



The Relationship Between Normal Field Errors And Physics Quantities In Stellarator Coil Design

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IAEA-CN-316-2396

Materials: via Indico sever:



Efficient Computation Of Multi-Fluid And Gyrokinetic Landau Collisions

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IAEA-CN-316-2399

Materials: via Indico sever: 

Tokamak Transport Under Flat Temperature Scenarios Using Global Gyro-Kinetic Simulations

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IAEA-CN-316-2401

Materials: via Indico sever:



Fast Flexible Stellarator Optimization And Analysis With The Desc Code Suite

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IAEA-CN-316-2403

Materials: via Indico sever:



AI-Machine Learning-Enabled Tokamak Digital Twin

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IAEA-CN-316-2406

Materials: via Indico sever:



Trapped Electron Coupled ITG Turbulence Simulation For ADITYA-U

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IAEA-CN-316-2414

Materials: via Indico sever: 

3D Tokamak Plasma Equilibrium With $N = 1$ Toroidal Asymmetry

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IAEA-CN-316-2422

Materials: via Indico sever:



[Regular Poster Twin] Predictions Of Performance Variations In Inertial Confinement Fusion Experiments At The National Ignition Facility

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IAEA-CN-316-2549

Materials: via Indico sever:



[Regular Poster Twin] On The Possibility Of X-Point Radiation Regime For ITER-Like Tokamaks

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IAEA-CN-316-2550

Materials: via Indico sever:



[Regular Poster Twin] Compression Of Solid Spherical Fuel For Fast Ignition Based Inertial Fusion Energy

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IAEA-CN-316-2554

Materials: via Indico sever:



[Regular Poster Twin] Theoretical Scaling Of The Operational Density Limit In Tokamaks And Comparison To Experimental Data

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IAEA-CN-316-2559

Materials: via Indico sever:



[Regular Poster Twin] A Gyrokinetics-Based Model For Predicting Pedestal Width Scaling At Arbitrary Aspect Ratio

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IAEA-CN-316-2563

Materials: via Indico sever:



[Regular Poster Twin] Diagnosing Inertial Confinement Fusion Ignition

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IAEA-CN-316-2565

Materials: via Indico sever:



[Regular Poster Twin] 80 Beams, 270 kJ ICF Implosions On LMJâPetal

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IAEA-CN-316-2566

Materials: via Indico sever:



[Regular Poster Twin] Kinetic Simulations Of Pedestal Fueling Asymmetry And Implication For Scrape-Off Layer Flows

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IAEA-CN-316-2567

Materials: via Indico sever:



[Regular Poster Twin] Role Of Turbulent Separatrix Tangle In The Improvement Of The Integrated Pedestal/Heat-Exhaust Issue For Stationary Operation In ITER And Fusion Reactors

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IAEA-CN-316-2581

Materials: via Indico sever:



[Regular Poster Twin] Results From The Eurofusion Enabling Research Project "Advancing Shock Ignition For Direct-Drive Inertial Fusion"

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IAEA-CN-316-2582

Materials: via Indico sever:



Turbulence Spreading Into Edge Stochastic Magnetic Layer Induced By MHD Activity And Its Impact On Divertor Heat Load

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IAEA-CN-316-1647

Materials: via Indico sever:



Quantitative Study Of Influx, Recycling And Particle Balance With Different Wall Conditioning In ADITYA-U Tokamak

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IAEA-CN-316-2259

Materials: via Indico sever:



Turbulence, Transport And Confinement Dependence On Isotope Mass In Dimensionally Similar H-Mode Plasmas On DIII-D

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IAEA-CN-316-2332

Materials: via Indico sever:



MHD Activity Induced Excitation Of Gam-Like Mode In ADITYA-U Tokamak

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IAEA-CN-316-2324

Materials: via Indico sever:



Electron-Scale Turbulence Characteristics In LHD Plasma

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IAEA-CN-316-1802

Materials: via Indico sever:



Characterization Of Mutual Interactions Between Filaments By Ultra-Fast Passive Imaging And Machine Learning

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IAEA-CN-316-2237

Materials: via Indico sever:



Performance And Transport In ITER: Multi-Channel Validation In DIII-D ITER-Like Conditions And Predictions Of ITER Burning Plasmas Via Nonlinear Gyrokinetic Profile Prediction

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IAEA-CN-316-2194



Materials: via Indico sever:

Progress On Understanding The Nature Of Edge And Scrape-Off Layer Turbulence Using AB-INITIO Simulations In Diverted Geometry

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IAEA-CN-316-2352

Materials: via Indico sever:



From Data Mining To Physical Interpretation And Theory Testing: Observation Of Spontaneous Confinement Transitions In W7-X

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IAEA-CN-316-2181

Materials: via Indico sever:



Influence Of Sawtooth Oscillations On Fast Ions In A Stellarator

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IAEA-CN-316-2279

Materials: via Indico sever:



Interpreting Ion Heat Transport In Wendelstein 7-X Experiments Using An Empirical Transport Model To Find Routes To Optimum Performance Plasmas

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IAEA-CN-316-2175



Materials: via Indico sever:

Development Of A Novel Optimization Scheme For Plasma Equilibrium Control With Superconducting Coil In JT-60SA

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IAEA-CN-316-1650

Materials: via Indico sever:



Additional Ecrh Mitigates Thermal Quenches Induced By Tungsten Tessel Injection In LHD

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IAEA-CN-316-2177

Materials: via Indico sever:



Adaptive Control Of Safety Factor Profile And Normalized Beta For JT-60SA Using Reinforcement Learning

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IAEA-CN-316-1643

Materials: via Indico sever:



Plasma Potential Measurements In The SOL/EDGE Region Of ADITYA-U Tokamak Using Laser Heated Emissive Probe

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IAEA-CN-316-2262

Materials: via Indico sever:



Optimization And Feedback Control Of The C-2W Field Reversed Configuration

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IAEA-CN-316-2115

Materials: via Indico sever:



Radiation Dependence Of Divertor Leg Length In Detachment On DIII-D

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IAEA-CN-316-2317

Materials: via Indico sever:



Closed Loop RMP ELM Suppression With Minimized Confinement Degradation Using Adaptive Control DEMONstrated In DIII-D And KSTAR

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IAEA-CN-316-1961

Materials: via Indico sever:



Tailoring Error Field Of Tokamak To Control Plasma Instability And Transport

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IAEA-CN-316-1962

Materials: via Indico sever: 

Examining Divertor Profile Broadening And Detachment In High Parallel Heat Flux DIII-D Discharges

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IAEA-CN-316-2333

Materials: via Indico sever:



Analysis And Design Of Fast Flow Liquid LI Divertor For Fusion Nuclear Science Facility (FNSF) Using SOLPS-ITER

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IAEA-CN-316-1592

Materials: via Indico sever:



On The Similarity Principals And The Self-Verification Of Edge Plasma Codes

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IAEA-CN-316-1593

Materials: via Indico sever:



Time-Dependent SOLPS-ITER Simulations Of The Tokamak Plasma Boundary For Model Predictive Control

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IAEA-CN-316-1595

Materials: via Indico sever:



Advances In Plasma-Wall Boundary Conditions For Gyrokinetic And Fluid Simulations

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IAEA-CN-316-1615

Materials: via Indico sever:



A Hybrid Gyrokinetic Ion \hat{a} " Fluid Electron Model For Edge Plasma Simulations

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IAEA-CN-316-1621

Materials: via Indico sever:



Stellarator Divertors

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IAEA-CN-316-1628

Materials: via Indico sever:



Comparison Of Different Seeding Impurities (N, Ne, Ar, Kr) Compression Effectiveness In Divertor By SOLPS-ITER Modeling

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IAEA-CN-316-1630

Materials: via Indico sever: 

Data-Driven Models In Fusion Exhaust: AI Methods And Perspectives

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IAEA-CN-316-1665

Materials: via Indico sever:



Self-Consistent Simulations Of ICRF-Induced Alfvén Eigenmodes In Magnetically Confined Plasmas

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IAEA-CN-316-1705

Materials: via Indico sever:



On The Nonlinear Dynamics Of Fishbones And Energetic Particle Modes

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IAEA-CN-316-1719

Materials: via Indico sever:



Close Coupling Of The Peeling Ballooning Mode To The External Kink One Through Its Peak Mode-Number Shift To $n=1$ In Plasmas With Strong Shape And Large Pedestal Width

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IAEA-CN-316-1723



Materials: via Indico sever:

Analysis Of Berk-Briezman Energetic Particle Nonlinear Model Using Entropy Approach

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IAEA-CN-316-1730

Materials: via Indico sever:



Nonlinear Excitation Of Energetic Particle Driven Geodesic Acoustic Mode By Alfvén Eigenmode In ASDEX-Upgrade

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IAEA-CN-316-1749

Materials: via Indico sever:



Density Pedestal Prediction Model For Tokamak Plasmas

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IAEA-CN-316-1773

Materials: via Indico sever:



Impurity Parallel Velocity Gradient Instability

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IAEA-CN-316-1829

Materials: via Indico sever:



Development Of Collision Detection Algorithms For Fusion Digital Twin With Simulation Capabilities

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Materials: via Indico sever:



Overview Of Interpretive Modelling Of Fusion Performance In JET DTE2 Discharges With Transp

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Materials: via Indico sever:



Modeling Of The Density Decrease In The KSTAR Double-Null Transition Discharge

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IAEA-CN-316-1921

Materials: via Indico sever:



The Bifurcation Behaviour Of Rmp Control Of ELMs In The Presence Of Plasma Flow : A Nonlinear Simulation Study

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IAEA-CN-316-1922

Materials: via Indico sever:



First Principle Gyrokinetic Simulations Of Frequency Chirping Alfvén Modes In Fusion Plasmas

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IAEA-CN-316-1927

Materials: via Indico sever:



The Nonlinear Simulations On The Plasma Response And ELM Control By The Multi Toroidal Mode Number Of RMP On EAST

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IAEA-CN-316-1929

Materials: via Indico sever:



Numerical Analysis Of The ASDEX Upgrade Impurity Seeding Discharges Using European Transport Simulator

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IAEA-CN-316-1936

Materials: via Indico sever:



Roles Of ECH System In DTT Plasma Operations

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IAEA-CN-316-1952



Materials: via Indico sever:

Generative Modeling Of Pedestal Plasmas In JET And AUG

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IAEA-CN-316-2020

Materials: via Indico sever:



Integrated Design And Optimization Of The Advanced Tokamak Path Toward The Steady-State Fusion Pilot Plant

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IAEA-CN-316-2033

Materials: via Indico sever:



Influence Of Wall On Plasma Transport Across Magnetic Filter Field In A Negative Ion Source: A 2D-3V PIC MCC Simulation Study

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IAEA-CN-316-2035

Materials: via Indico sever:



Dissimilar Material Joints At Cryogenic Temperature For Superconducting Fusion Application

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IAEA-CN-316-2039

Materials: via Indico sever:



Upgraded IR-IECF Device As A Promising Compact Source For The Future Nuclear Fusion Research

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IAEA-CN-316-2040

Materials: via Indico sever:



An ITER-Relevant First Mirrors Unit With Integrated Mirror Cleaning System Utilizing A Capacitive Coupled Radio Frequency Discharge

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IAEA-CN-316-2042



Materials: via Indico sever:

Axisymmetric Magnetic Control In ITER For PFPO-1

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IAEA-CN-316-2047

Materials: via Indico sever:



Studies On The Retarded Recrystallization Of Tungsten In Cimple-PSI, At Extreme Target Temperature And He+-Fluence

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IAEA-CN-316-2048

Materials: via Indico sever:



Development Of Lead Lithium (Pb-16Li) Alloy Production System And Characterization Of The Produced Alloy

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IAEA-CN-316-2051

Materials: via Indico sever:



Aabhas: A 3 Sided Fully Immersive Virtual Reality Cave Facility For Design, Operations & Maintenance Of Nuclear Machines

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IAEA-CN-316-2053

Materials: via Indico sever:



Inspecting The Aftermath Of Vertical Displacement Events By Integrating The Jorek-Starwall Plasma Simulation Code Into A Remote Maintenance System

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IAEA-CN-316-2070

Materials: via Indico sever:



Irradiation-Induced Stress At Reactor Component Scale

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IAEA-CN-316-2072

Materials: via Indico sever:



Decoupling Beam Power And Beam Energy On ASDEX Upgrade NBI With An In-Situ Variable Extraction Gap System

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IAEA-CN-316-2074

Materials: via Indico sever:



Porcelain Based 100 kV Feedthrough For Prototype ITER DNB At INTF

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IAEA-CN-316-2077

Materials: via Indico sever: 

ICRF Operations During The JET Tritium And DTE2 Campaigns

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IAEA-CN-316-2082

Materials: via Indico sever:



How UKAEA's Fuel Cycle Loop Will Address Key Challenges In Tritium Management For Fusion Power

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IAEA-CN-316-2091

Materials: via Indico sever: 

Effects Of Electromagnetic Transients On DTT In-Vessel Coils

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IAEA-CN-316-2092

Materials: via Indico sever:



Developing Integrated Cost Models For Fusion Power Plants

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IAEA-CN-316-2095

Materials: via Indico sever:



Development And Validation In Neutron-Irradiated Water Of Fluned, An Open-Source Tool For Fluid Activation Calculations

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IAEA-CN-316-2096

Materials: via Indico sever:



Development Of DIII-D High Field Side Lower Hybrid Current Drive Launcher

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IAEA-CN-316-2108

Materials: via Indico sever:



Operational Experience Of SST-1: Lesson Learned

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IAEA-CN-316-2121

Materials: via Indico sever:



Protection Of The Divertor And The First Wall In The West Tokamak In View Of ITER

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IAEA-CN-316-2137

Materials: via Indico sever:



W-Hydra: A New Experimental Platform For The Water-Cooled Lead Lithium Breeding Blanket

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IAEA-CN-316-2142

Materials: via Indico sever:



R&D For The Development Of Compact HTS Coils

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IAEA-CN-316-2144

Materials: via Indico sever:



Experimental And Simulation Study On SST-1 PF#3 Vacuum Barriers Arcing Incidences And Mitigation Techniques

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IAEA-CN-316-2147

Materials: via Indico sever:



Real Time Vertical Position Estimation Of Plasma Column Using Fast Imaging In ADITYA-U Tokamak

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IAEA-CN-316-2159

Materials: via Indico sever:



Impact Of Breach Geometry And Propellant Flow On The Release Of Large Pellets For The ITER Disruption Mitigation System

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IAEA-CN-316-2161

Materials: via Indico sever:



Phase-Space Measurements Of MHD-Induced Fast-Ion Transport In The ASDEX Upgrade Tokamak

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IAEA-CN-316-2165

Materials: via Indico sever:



Research And Development Progress Of The Tritium Breeding Functional Materials And Pebble Bed Technology For The Solid Breeding Blanket At SWIP

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IAEA-CN-316-2166

Materials: via Indico sever:



Progress Towards ELM-Less H-Mode Operations In KSTAR Long Pulses With Resonant Magnetic Perturbations

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IAEA-CN-316-2167

Materials: via Indico sever:



Instantaneous Risk Monitoring Method For Fusion Reactors Based On Level Three Probabilistic Safety Assessment

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Materials: via Indico sever:



Development And Application Of Hineg Series High Intensity Steady Neutron Generators

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Materials: via Indico sever:



ENN'S Roadmap For Proton-Boron Fusion Based On Spherical Torus

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Materials: via Indico sever:



Regulation Of Fusion Power Plants And International Harmonization

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Materials: via Indico sever:



Actively Cooled Carbon Armoured Divertor (ACD) For JT-60SA

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Materials: via Indico sever:



Use Of Oscar Fusion V.1.4 Code For A Preliminary Assessment Of The ACPS Contamination Within The Main ITER Water-Cooled Circuit

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Materials: via Indico sever:



Cad-Based Software For Assessment Of Tokamak Componentsâ Heat And Particle Loads

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Materials: via Indico sever:



Early Detection Of Tearing Modes And Its Impact On Understanding The MHD Stability Of High-Qmin Plasmas In DIII-D

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Materials: via Indico sever:

Development And Application Of TopMC In Fusion Shielding

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Materials: via Indico sever:



Development And Plasma Tests Of The Quasy-Stationary Lithium Protection Of The First Wall On The T-11M Tokamak

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Materials: via Indico sever:



Visible Imaging-Based Plasma Boundary Realization For ADITYA-U Tokamak Operations.

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Materials: via Indico sever:



Disruption Prediction On ADITYA/ADITYA-U Using Future Sequence Based Time Series Neural Network

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Materials: via Indico sever:



Experimental And Numerical Investigation Of The Doppler-Shifted Resonance Condition For High Frequency Alfvén Eigenmodes On ASDEX Upgrade

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Materials: via Indico sever:



Experimental Evidence Of A New Type Of Self-Generated Plasma Current Observed In KSTAR

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Materials: via Indico sever:



Ion Driven Hydrogen Implantation And Retention Studies Into Structural And Plasma Facing Materials As A Function Of Damage

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Materials: via Indico sever:



Real-Time Plasma Equilibrium Reconstruction And Shape Control For The Mast Upgrade Tokamak

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Materials: via Indico sever:



Plasma-Wall Self-Organization In Magnetic Fusion

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Materials: via Indico sever:



Experiment On Alfvén Eigenmode Excitation By Alpha Particles In DTE2 Plasmas On JET

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Materials: via Indico sever:



Core-Edge Integrated Neon-Seeded Scenario In Deuterium-Tritium At JET

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Materials: via Indico sever:



Studies Of Power Load With Localised Neon Injection In HL-2M

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Materials: via Indico sever:



Assessment Of The Scrape Off Layer Width And Target Heat Loads In ST40

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Materials: via Indico sever:



Physics Basis For The Divertor Tokamak Test Facility

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IAEA-CN-316-2419



Materials: via Indico sever:

[Regular Poster Twin] Improved Pedestal Performance Utilizing Resonant Magnetic Perturbations And Edge Localized Electron Cyclotron Current Drive

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Materials: via Indico sever:



[Regular Poster Twin] Helium Plasma Operations On ASDEX Upgrade And JET In Support Of The Non-Nuclear Phases Of ITER

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IAEA-CN-316-2551

Materials: via Indico sever:



[Regular Poster Twin] Identification Of Plasma Conditions Affecting MHD Phenomena In QH-Mode And ELMy H-Mode Plasmas In DIII-D

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IAEA-CN-316-2552

Materials: via Indico sever:



[Regular Poster Twin] Development Of Monolithically Additive Manufactured Lower Hybrid Current Drive Launchers And RF Systems

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IAEA-CN-316-2553

Materials: via Indico sever:



[Regular Poster Twin] Overview Of Eda H-Mode Experiments And Studies In ASDEX Upgrade

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IAEA-CN-316-2555

Materials: via Indico sever:



[Regular Poster Twin] L-H Transition Physics Results From Recent Tritium And Deuterium-Tritium Campaigns At JET

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IAEA-CN-316-2556

Materials: via Indico sever:



[Regular Poster Twin] Overview Related To Manufacturing, Testing And Installation Of The Full Tungsten Actively Cooled ITER-Like Divertor In The West Tokamak

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IAEA-CN-316-2557

Materials: via Indico sever:



[Regular Poster Twin] Recent Progress Of The Reactor-Relevant Intrinsically ELM-Stable Quiescent H-Mode On The DIII-D Tokamak

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IAEA-CN-316-2558

Materials: via Indico sever:



[Regular Poster Twin] The Divertor Tokamak Test Facility: Engineering And Technology Integration Challenges

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IAEA-CN-316-2560

Materials: via Indico sever:



[Regular Poster Twin] Progress In Design And Experimental Activities For The Development Of An Advanced Breeding Blanket

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IAEA-CN-316-2561



Materials: via Indico sever:

[Regular Poster Twin] Development And Manufacturing Of Beryllium-Armoring ITER Enhanced Heat Flux Fw Towards Series Production In China

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IAEA-CN-316-2562

Materials: via Indico sever:



[Regular Poster Twin] Progress In A Us-Based Liquid Metal Plasma-Facing Component Design Activity For A Fusion Nuclear Science Facility

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IAEA-CN-316-2564

Materials: via Indico sever:



Overview Of Alpha Particle And Fast Ion Studies In JET DTE2 Plasmas

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Materials: via Indico sever:



Effect Of Impurity Seeding On Toroidal Rotation In ADITYA-U Tokamak

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Materials: via Indico sever:



Fire Mode: A New Fast Ion Regulated Regime For High-Performance, Steady-State Operation

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Materials: via Indico sever:



Radiation Asymmetry Studies In ADITYA-U Tokamak Using Bolometer Tomography

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Materials: via Indico sever:



Controlling Performance Bifurcations In Large Stellarators

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Materials: via Indico sever:



Impurity Dynamics In Linear And Saturated Ohmic Confinement Regimes In ADITYA Tokamak

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Materials: via Indico sever:



Impurity Powder Injection Experiments In The Large Helical Device

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IAEA-CN-316-2029

Materials: via Indico sever:



Runaway Seed Formation And Growth In Low Density Tokamak Scenarios At The Madison Symmetric Torus (MST)

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Materials: via Indico sever:



A Quasi-Isodynamic Stellarator Configuration Optimized For Fast-Ion Confinement And Turbulent Transport

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IAEA-CN-316-1840

Materials: via Indico sever:



Investigation Of Quasi-Helical State (QSH) On Keda Torus Experiment (KTX)

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IAEA-CN-316-2398

Materials: via Indico sever: 

Realization Of High Energy Confinement Plasmas With I-Mode And Ion Itb Regimes In The HL-2A Tokamak

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Materials: via Indico sever:



Effect Of External Magnetic Perturbation On Edge Em Instabilities In ADITYA-U Plasma

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Materials: via Indico sever:



Effect Of Magnetic Divertor Geometry On Plasma Exhaust And Core Compatibility In TCV

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Materials: via Indico sever:



H-Mode Sol Profiles And Transport Dependence On Separatrix Operational Space

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Materials: via Indico sever:



JET Machine Operations In Tritium & D-T

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Materials: via Indico sever:



Preliminary Divertor Plasma Operation In ADITYA-U Tokamak

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Materials: via Indico sever:

Understanding Tritium Inventory And Permeation In Materials For Fusion Reactors: A Coupled Experimental And Modelling Approach

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IAEA-CN-316-1969

Materials: via Indico sever:



Effect Of Impurities And Wall-Conditioning Techniques On Edge Plasma Fluctuations In ADITYA-U Tokamak

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Materials: via Indico sever:



Demonstration Of Triple-Frequency Gyrotron For ITER And Development Of Gyrotron Operation Technology

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Materials: via Indico sever:



Radiated Power By Molecular Deuterium In The Tokamak Divertor

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Materials: via Indico sever:



High Frequency Dielectric Lined Waveguides To Enable Future ECH / ECE In Fusion Energy Development

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Materials: via Indico sever:



ITER Materials Irradiation Within The D⁺T Neutron Environment At JET: Post-Irradiation Analysis Outcomes And Recommendations

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Materials: via Indico sever:



Detachment Control Innovations Used To Support Long-Pulse Detachment Studies On The KSTAR Tokamak

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Materials: via Indico sever:



High-Dose Neutron Irradiation Of Beryllium And Titanium Beryllide: Summary And Outlook

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Materials: via Indico sever:



Heat And Particle Flux To Primary And Secondary Divertors For Various ELM Types And Its Implications For Future Machines

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Materials: via Indico sever:



Applicability Of Large-Current HTS Simply-Stacked Conductor (STARS) For Fusion Reactors And Next-Generation Fusion Experimental Devices

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Materials: via Indico sever:

Integrated Process For RMP-Based ELM-Less Operation With Enhanced Plasma Performance In KSTAR Tokamak

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Materials: via Indico sever:



Simulation Studies Of Power And Helium Exhaust For Japanese And European DEMO Divertors By Sonic Divertor Code

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Materials: via Indico sever:



Tritium Production In A Fusion-Fission Hybrid Reactor Based On A Spherical Tokamak Neutron Source

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Materials: via Indico sever:



Theoretical Survey Of The Conditions For Successful Pre-Ionization By Inductive Field In Tokamaks

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Materials: via Indico sever:



Emission Of High Rovibrational Hydrogen Molecules Under Detached Plasma By Recycling On Tungsten Wall

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Materials: via Indico sever:



Neutron Radiation Damage In The Materials Of A Compact Hybrid Fusion Neutron Source With A Homogeneous Heavy-Water Blanket

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Materials: via Indico sever:



A Concept Of DD Muon Catalyzed Fusion For Driving -Thorium Subcritical Hybrid Reactor

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Materials: via Indico sever:



Optimization Of The MHD Stability In Inwards Shifted LHD Plasmas: Neutral Beam Current Drive, Plasma Density And NBI Operational Regime

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Materials: via Indico sever:



Disruption Runaway Electron Generation And Mitigation In The Spherical Tokamak For Energy Production

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Materials: via Indico sever:



Neutral Exhaust Studies In Detached Wendelstein 7-X Discharges Using EMC3-EIRENE

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Materials: via Indico sever:



Energetic Particle Transport In ITER Driven By Alfvénic Turbulence

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Materials: via Indico sever:



Passive, Automatic Stabilization Of Magnetic Islands Using Radio Frequency Wave Heating And Current Drive

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Materials: via Indico sever:



Effects Of Kinetic Thermal Ions On Beta Limit Due To Infernal Modes In Tokamak Plasmas

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Materials: via Indico sever:



Turbulence Spreading And SOL Width Broadening In Small/Grassy Regime

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Materials: via Indico sever:



Modeling Of Radiation Transport Effects In Lithium Divertors

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Materials: via Indico sever:



Advances In RMP ELM Suppression Towards High Pedestal Pressures Harnessing The Super H-Mode Regime

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Materials: via Indico sever:



Influence Of Gas Injection Loci On Highly Shaped Plasmas With Tungsten Divertor In KSTAR : Case Study

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Materials: via Indico sever:



Progresses In Understanding The Effects Of ICRF/NBI Fast-Ions On Core Turbulence And Alfvén Activity On ASDEX Upgrade

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Materials: via Indico sever:



Modeling Impurity Sources, Transport And Screening In Edge Tokamak Plasmas: Comparison With West Experiments And Application To ITER Scenarios

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Materials: via Indico sever:



Evolution Of ITER Like Tungsten Divertor Plasma Facing Components Under West Plasma Exposure Crack Initiation â" Pre-Damage Evolution - Microstructure

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Materials: via Indico sever:



Plasma Fueling Due To Thermal Charge Exchange Neutrals On DIII-D And Future Reactors

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Materials: via Indico sever:



Manipulating Density Pedestal Structure To Improve Core-Edge Integration Towards Low Collisionality

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Materials: via Indico sever:



MAST-U Thomson Scattering In The Core, Divertor And X-Point

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Materials: via Indico sever:



Limiting Factors For Achieving Peeling-Limited Pedestals In Present Devices

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Materials: via Indico sever:



The Plasma Scenarios For The Spherical Tokamak For Energy Production (STEP) And Their Technical Implications

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Materials: via Indico sever:



Theory Of Turbulence Measurements Using Short Pulse Reflectometry With Application To The TCV Tokamak

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Materials: via Indico sever:



Error Field Detection And Correction Studies Towards ITER Operation

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Materials: via Indico sever:



Integration Of TRANSP Into The IMAS Framework And Its Application To The Development Of ITER Non-Active Operation Scenarios

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Materials: via Indico sever:

High-Fidelity Nonlinear MHD Modeling For Advanced Stellarators

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Materials: via Indico sever:



Machine Learning For Plasma Shape Control On MAST-U

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Materials: via Indico sever:



Energy Dependent Alpha Particle Redistribution In ITER Like Plasmas With A Helical Core

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Materials: via Indico sever:



Development Of Basic Thermonuclear Technologies Of The Fusion-Fission Hybrid Facility For Testing Materials And Component

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Materials: via Indico sever:



Coupling Of Free-Boundary-Equilibrium And Transport Solvers To Enable Model-Based Scenario Optimization And Integrated Control

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Materials: via Indico sever:



Electrostatic Turbulence In EAST Plasmas With Internal Transport Barrier

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IAEA-CN-316-2207

Materials: via Indico sever:



Simulated Equilibrium Of Plasmas With Negative-Triangularity In Tokamak ADITYA-U Using The IPREQ MHD Code

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IAEA-CN-316-2247

Materials: via Indico sever:



Predictive Modelling Of Hot-Ion Mode Plasmas In ST40

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IAEA-CN-316-2251

Materials: via Indico sever:



RFP-SSR Hybrid Reactor Model For Actinides Transmutation And Tritium Breeding Studies

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IAEA-CN-316-2252

Materials: via Indico sever:



GSFIT: An Open Source, Python Based, Equilibrium Reconstruction Algorithm

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IAEA-CN-316-2268

Materials: via Indico sever:



Reconstruction Of Magnetic Fields Via Field Neural Network

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IAEA-CN-316-2273

Materials: via Indico sever:



Physics Based Routes To Increased Confinement

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IAEA-CN-316-2282

Materials: via Indico sever:



Validation Of The TGLF Model On ST40 Ohmic And Hot Ion Plasmas

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IAEA-CN-316-2293

Materials: via Indico sever:



Improving The Accuracy And Speed Of Equilibrium Reconstructions Of Tokamak Plasmas Using Machine Learning

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IAEA-CN-316-2306

Materials: via Indico sever:



Isotope Impact On Alfvén Eigenmodes And Fast Ion Transport In DIII-D

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IAEA-CN-316-2318

Materials: via Indico sever:



Validity Of Fluid Closures In The Scrape-Off Layer

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IAEA-CN-316-2326

Materials: via Indico sever:



Study Of MHD Instabilities And Electrostatic Oscillations Using Fast Visible Imaging Diagnostic In ADITYA-U Tokamak

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IAEA-CN-316-2345

Materials: via Indico sever:



Anomalous Runaway Electron Loss In ADITYA And ADITYA-U Tokamak And Its Correlation With Edge Fluctuations

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IAEA-CN-316-2349

Materials: via Indico sever:



SOLPS-ITER Assessment Of The Impact Of Fuelling And Seeding Puff Locations On Divertor Impurity Retention In STEP

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IAEA-CN-316-2363

Materials: via Indico sever:



Various Experiments On Runaway Electron Generation And Mitigation In The ADITYA-U Tokamak

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IAEA-CN-316-2364

Materials: via Indico sever:



Stabilization Of Sawtooth Instability By Short Gas Pulse Injection In ADITYA-U Tokamak.

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IAEA-CN-316-2366

Materials: via Indico sever:



Can The Runaway Electrons Be Mitigated By Whistlers - A Laboratory Case Study

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Materials: via Indico sever: 

Observations Of Toroidal Radiation Asymmetry During Disruption In ADITYA-U Tokamak

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IAEA-CN-316-2382

Materials: via Indico sever:



[Regular Poster Twin] Turbulence Spreading Into Edge Stochastic Magnetic Layer Induced By MHD Activity And Its Impact On Divertor Heat Load

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IAEA-CN-316-2569



Materials: via Indico sever:

[Regular Poster Twin] Turbulence, Transport And Confinement Dependence On Isotope Mass In Dimensionally Similar H-Mode Plasmas On DIII-D

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IAEA-CN-316-2570

Materials: via Indico sever:



[Regular Poster Twin] Electron-Scale Turbulence Characteristics In LHD Plasma

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IAEA-CN-316-2571

Materials: via Indico sever: 

**[Regular Poster Twin] Performance And Transport In ITER:
Multi-Channel Validation In DIII-D ITER-Like Conditions And
Predictions Of ITER Burning Plasmas Via Nonlinear Gyrokinetic
Profile Prediction**

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IAEA-CN-316-2572

Materials: via Indico sever:



[Regular Poster Twin] Progress On Understanding The Nature Of Edge And Scrape-Off Layer Turbulence Using Ab-Initio Simulations In Diverted Geometry

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IAEA-CN-316-2573

Materials: via Indico sever:



[Regular Poster Twin] Development Of A Novel Optimization Scheme For Plasma Equilibrium Control With Superconducting Coil In JT-60SA

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IAEA-CN-316-2574

Materials: via Indico sever:



[Regular Poster Twin] Adaptive Control Of Safety Factor Profile And Normalized Beta For JT-60SA Using Reinforcement Learning

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IAEA-CN-316-2575

Materials: via Indico sever: 

[Regular Poster Twin] Optimization And Feedback Control Of The C-2W Field Reversed Configuration

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IAEA-CN-316-2576

Materials: via Indico sever:



[Regular Poster Twin] Closed Loop Rmp ELM Suppression With Minimized Confinement Degradation Using Adaptive Control DEMONstrated In DIII-D And KSTAR

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IAEA-CN-316-2577



Materials: via Indico sever:

[Regular Poster Twin] Tailoring Error Field Of Tokamak To Control Plasma Instability And Transport

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IAEA-CN-316-2578

Materials: via Indico sever:



DEMONstration Of Real-Time Predictive Plasma Control In LHD By Data Assimilation System ASTI

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Materials: via Indico sever:



Resistive And 3D Effects In ELM-Suppressed H-Mode With Resonant Magnetic Perturbations In ASDEX Upgrade

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IAEA-CN-316-1828

Materials: via Indico sever:



Investigation Of RMP-Induced Ion-Scale Turbulence In The Pedestal And Its Role In Accessing The Optimized High-Confinement ELM-Free State

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IAEA-CN-316-1958

Materials: via Indico sever:



Recent Highlights Of The ASDEX Upgrade Control Research

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Materials: via Indico sever:



Integration Of RMP ELM Control With Divertor Detachment In The DIII-D Tokamak

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IAEA-CN-316-1852

Materials: via Indico sever: 

Internal Magnetic Turbulence Measurements Link To Confinement Factor In DIII-D L-, ELMy H-, Quiescent H-, And I-Mode Plasmas

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IAEA-CN-316-1985

Materials: via Indico sever:



Runaway Electron Prevention By A Passive 3D Coil In Disruption Simulations Of The SPARC And DIII-D Tokamaks

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Materials: via Indico sever:



Mesoscopic Turbulent Transport Events With Long-Radial-Range Correlation In Low Flow Shear H-Mode Plasmas On DIII-D

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IAEA-CN-316-2031

Materials: via Indico sever:



Achievement Of ELM Suppression With N=4 Rmp In EAST Towards ITER Baseline Scenario

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IAEA-CN-316-1854

Materials: via Indico sever:



Observation Of Avalanche-Like Transport In Heliotron J And JT-60U Plasmas

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IAEA-CN-316-1656

Materials: via Indico sever:



Development Of High-Performance Long-Pulse Discharge In KSTAR

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IAEA-CN-316-1919

Materials: via Indico sever:



Validation Of Low-Z Impurity Transport Theory Using Perturbation Experiments At ASDEX Upgrade

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IAEA-CN-316-1710

Materials: via Indico sever:



Status And Prospects For DEMO Related Developments In Europe

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IAEA-CN-316-1993

Materials: via Indico sever:



Assessing The Technological And Physics Maturity Required For The Design Space Of The K-DEMO

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IAEA-CN-316-1917

Materials: via Indico sever:



Towards Real-Time Control Of Alfvén Eigenmodes At DIII-D Using Data-Driven Models And High-Resolution Diagnostics

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IAEA-CN-316-1990

Materials: via Indico sever:



Progress Of Basic Conceptual Design Of JA DEMO

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IAEA-CN-316-1751

Materials: via Indico sever: 

Observation Of Tungsten Emission Spectra Up To W46+ Ions In The Large Helical Device And Prospects For High-Z Impurity Transport Control In Fusion Plasmas

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IAEA-CN-316-1642

Materials: via Indico sever:



Contributions Of The Extended Elise And Batman Upgrade Test Facilities To The Roadmap Towards ITER NBI

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IAEA-CN-316-1794

Materials: via Indico sever:



Progress On Long-Pulse And ITER-Relevant-Intensity Negative Ion Beam Accelerations For ITER Neutral Beam Injector

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IAEA-CN-316-1691

Materials: via Indico sever:



Accessing And Maintaining Robust H-Mode In ITER Pre-Fusion Power Operation (PFPO) Plasmas

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Materials: via Indico sever:



Study Of Helically-Trapped Beam Ion Behaviour In Neutral-Beam And Ion Cyclotron Range Of Frequency Wave-Heated Deuterium Plasmas Of The Large Helical Device Using Compact Neutron Emission Spectrometers

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IAEA-CN-316-1597

Materials: via Indico sever:



Detachment-Compatible Small-ELM Regime At Low Q95 With Neon SMBI On EAST In A Metal Wall Environment

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IAEA-CN-316-1599

Materials: via Indico sever:



Investigation Of Local Current Sheet Formation During Forced Magnetic Reconnection Process In EAST 1000 Second Plasma With Te-ITB

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IAEA-CN-316-1606



Materials: via Indico sever:

Deuterium-Tritium Isotope Scaling Of Particle And Heat Transport In JET Core L-Mode Plasma

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IAEA-CN-316-1660

Materials: via Indico sever:



The Competition Between W Nanostructure Formation And W Annealing, W Erosion And Low-Z Co-Deposition In The Divertor Of Metallic Fusion Devices

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IAEA-CN-316-1666

Materials: via Indico sever:



The Root Cause Of Disruptive Ntms And Paths To Stable Operation In DIII-D ITER Baseline Scenario Plasmas

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IAEA-CN-316-1669

Materials: via Indico sever:



Observation Of Energetic Ion Anisotropy Using Neutron Diagnostics In The Large Helical Device

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Materials: via Indico sever:



Ion Heating/Transport Characteristics Of Merging Startup Plasma Scenario In The TS-6 Spherical Tokamak

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Materials: via Indico sever:



Q-Profile Optimisation And Torque Variation In Advanced Tokamak Scenarios On ASDEX Upgrade

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IAEA-CN-316-1712

Materials: via Indico sever:



Study Of The Tae-Induced Transport And Losses Mechanisms Of Energetic Particles At The Globus-M/M2 Spherical Tokamaks

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Materials: via Indico sever:



Tritium Plasma Divertor Power Load Characteristics In JET

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IAEA-CN-316-1761

Materials: via Indico sever:



Heat And Particle Exhaust With The Island Divertor In Wendelstein 7-X

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Materials: via Indico sever:



Core Density Peaking By Control Of Energetic Ion Anisotropy In LHD

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Materials: via Indico sever: 

Variable-Spectrum Mode Control Of High Poloidal Beta Discharges

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Materials: via Indico sever:



Compatibility Of Argon-Seeded Detachment With Rmp-Induced ELM Control In KSTAR

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IAEA-CN-316-1888

Materials: via Indico sever:



The Quasi-Continuous Exhaust Operational Space On ASDEX Upgrade And ITER

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Materials: via Indico sever:



Integration Of ELM Control With Divertor Detachment Via Boron Injection In EAST

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IAEA-CN-316-1960

Materials: via Indico sever: 

Robust L-Mode Edge Behavior In High Performance Negative Triangularity Plasmas: From Experiments To Reactors

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Materials: via Indico sever:



High Accuracy, Multi-Device Physics-Based Tokamak Disruption Prediction And Forecasting With First Real-Time Demonstration

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IAEA-CN-316-2038

Materials: via Indico sever:



Mitigation And Suppression Of Energetic Particles Driven Instabilities By Radio-Frequency Waves On The HL-2A Tokamak

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IAEA-CN-316-2050

Materials: via Indico sever:



Investigation On Energetic Ion Losses Induced By Long-Lived Saturated Internal Mode With Energetic Particle Diagnostics In The HL-2A Tokamak

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Materials: via Indico sever:



The Stability Of The H-Mode Entry In The ITER Baseline Scenario Investigated In AUG And TCV

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IAEA-CN-316-2060

Materials: via Indico sever:



First Solps-ITER Predictions Of The Impact Of Cross-Field Drifts On Divertor And Scrape-Off Layer Conditions In Double-Null Configuration Of Step

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IAEA-CN-316-2067

Materials: via Indico sever:



Analysis Of Weakly Coherent Modes In The I-Mode Experiment On EAST And The Comparison With Drift Alfven Wave Theory

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IAEA-CN-316-2069

Materials: via Indico sever:



Global Impurity Recirculation Patterns In Soledge3X-EIRENE Simulations Of West Discharges And Modeling Uncertainties On The Parallel Particle Balance

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IAEA-CN-316-2076

Materials: via Indico sever:



Features And Effects Of Energetic-Ion Driven Instabilities In HL-2A High-Î'n Plasmas

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IAEA-CN-316-2080

Materials: via Indico sever:



Gyrokinetic Simulations Of The Effect Of Fast Ions On Turbulence And Zonal Flows In HL-2A ITB Plasmas

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Materials: via Indico sever:



Global Simulations Of The Flat-Top And Exit Phase Of ITER 15MA Baseline Scenario Fully Predictive Jintrac Simulations With Consistent Treatment Of D And T In The Whole Plasma

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IAEA-CN-316-2083

Materials: via Indico sever:



Cheap Training Sets For Gyrokinetic Surrogate Models With High Dimensionality For STEP Ramp-Up Scenarios

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IAEA-CN-316-2085

Materials: via Indico sever:



Modelling The Path To $Q = 10$ In The ITER 15Ma Baseline Scenario With JINTRAC

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IAEA-CN-316-2086

Materials: via Indico sever:



First Full Plasma ITER Integrated Modelling Studies With Separated Deuterium And Tritium And Optimal Tritium Usage - Overview Of Jintrac Simulations Of The Entire ITER 15MA/5.3T Dt Q=10 Scenario

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IAEA-CN-316-2087

Materials: via Indico sever:



Global Gyrokinetic Simulations Of Alfvén Eigenmodes In ITER And ASDEX Upgrade And The Effect Of Energetic Particle Distribution Functions On Stability

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IAEA-CN-316-2088

Materials: via Indico sever:



A Fast, Machine Learning-Based Emulator Of Scrape-Off Layer And Divertor Simulations For The MAST-U Tokamak: Towards Deep Reinforcement Learning Detachment Control

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IAEA-CN-316-2090

Materials: via Indico sever:



Progress On Neoclassical Tearing Mode Stabilization By Electron Cyclotron Current Drive In KSTAR

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IAEA-CN-316-2102

Materials: via Indico sever:



Gyrokinetic Simulations On The Triggering And Self-Sustaining Of Internal Transport Barrier In HL-2A Tokamak Plasmas

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IAEA-CN-316-2118

Materials: via Indico sever:



Neoclassical Tearing Mode Stabilization By Electron Cyclotron Current Drive In EAST Tokamak Experiment

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IAEA-CN-316-2119

Materials: via Indico sever:



Avoidance Of Runaway Current Plateau Formation By High-Z Impurity Seeding During Disruptions In The HL-2A Tokamak

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IAEA-CN-316-2120

Materials: via Indico sever:



Assessment Of The Burning-Plasma Operational Space In ITER By Using A Control-Oriented Solps Parameterized Core-Edge Model

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IAEA-CN-316-2123

Materials: via Indico sever:



Energetic Particle Marginal Stability Profile For HL-2M Integrated Simulation Based On Neural Network Module

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IAEA-CN-316-2124

Materials: via Indico sever:



Turbulent Transport Of Impurity Ions With Hollow Density Profiles In Fusion Devices

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IAEA-CN-316-2129

Materials: via Indico sever:



Global Gyrokinetic Simulation Of Electrostatic Microturbulent Transport In ADITYA-U Tokamak

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IAEA-CN-316-2133

Materials: via Indico sever:



RFX-mod2 As Flexible Device For Reversed-Field-Pinch And Low-Field Tokamak Research

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IAEA-CN-316-2136

Materials: via Indico sever:



Hybrid Scenario Prediction For HL-2M Megampere Plasma By Cronos

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IAEA-CN-316-2138

Materials: via Indico sever:



Confinement Of Fusion Alpha-Particles And Alfven Eigenmode Stability In Step

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IAEA-CN-316-2143

Materials: via Indico sever:



Impact Of The Impurity Seeding Over The Runaway Electron For The Ohmically Heated ADITYA-U Tokamak Plasma

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Materials: via Indico sever:



Non-Disruptive Tokamak Operation Far Beyond Traditional Safety Factor And Density Limits

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Materials: via Indico sever:



Experiment And Simulation Results Of Interactions Between Energetic Ions And Tearing Modes On HL-2A Tokamak

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Materials: via Indico sever:



Comparison Of Nitrogen And Neon Seeded Detachment In The HL-2A Closed Divertor Geometry

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IAEA-CN-316-2219

Materials: via Indico sever:



How Turbulent Transport Broadens The Heat Flux Width: Local Sol Production Or Edge Turbulence Spreading?

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IAEA-CN-316-2222

Materials: via Indico sever:



Recent Advances In Energetic-Electron Driven Alfvén Instabilities In The EAST Tokamak

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IAEA-CN-316-2241

Materials: via Indico sever:



Self-Consistent Integrated Modeling Of The Pedestal, Scrape-Off Layer, And Divertor

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IAEA-CN-316-2267

Materials: via Indico sever:



Disentangling H-Mode Pedestal Structure And Neutral Ionization Source

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IAEA-CN-316-2298

Materials: via Indico sever:



Developing Predictive Pedestal Transport Models Based On Validated Nonlinear Gyrokinetic Simulations

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Materials: via Indico sever:



Radiation Pressure On Plasma Turbulence By Radio Frequency Waves

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Materials: via Indico sever:



Role Of Zonal Flows In Trapped-Electron Mode Turbulence

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Materials: via Indico sever:



Kinetic Theory Of Parametric Decay Instabilities In Plasmas And Its Application In Different Radio Frequency Regimes

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Materials: via Indico sever:



Understanding The Kinetic Physics Of RMP Penetration In Tokamak Edge Plasma With High-Fidelity Gyrokinetic Simulations

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Materials: via Indico sever:



Full Nonlinear Simulations Of Gases In NSTX-U

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Materials: via Indico sever:



Unraveling The Physics Of Tungsten Sourcing And Leakage From A Slot Divertor Configuration On DIII-D

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IAEA-CN-316-2428

Materials: via Indico sever:



[Regular Poster Twin] Applicability Of Large-Current Hts Simply-Stacked Conductor (STARS) For Fusion Reactors And Next-Generation Fusion Experimental Devices

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Materials: via Indico sever:



[Regular Poster Twin] High-Dose Neutron Irradiation Of Beryllium And Titanium Beryllide: Summary And Outlook

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Materials: via Indico sever:



[Regular Poster Twin] ITER Materials Irradiation Within The Dâ" T Neutron Environment At JET: Post-Irradiation Analysis Outcomes And Recommendations

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IAEA-CN-316-2537

Materials: via Indico sever:



[Regular Poster Twin] High Frequency Dielectric Lined Waveguides To Enable Future ECH / ECE In Fusion Energy Development

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IAEA-CN-316-2538

Materials: via Indico sever:



[Regular Poster Twin] DEMOnstration Of Triple-Frequency Gyrotron For ITER And Development Of Gyrotron Operation Technology

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IAEA-CN-316-2539

Materials: via Indico sever:



[Regular Poster Twin] Understanding Tritium Inventory And Permeation In Materials For Fusion Reactors: A Coupled Experimental And Modelling Approach

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IAEA-CN-316-2540



Materials: via Indico sever:

[Regular Poster Twin] JET Machine Operations In Tritium & D-T

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IAEA-CN-316-2541

Materials: via Indico sever:



[Regular Poster Twin] Realization Of High Energy Confinement Plasmas With I-Mode And Ion Itb Regimes In The HL-2A Tokamak

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IAEA-CN-316-2542

Materials: via Indico sever:



[Regular Poster Twin] A Quasi-Isodynamic Stellarator Configuration Optimized For Fast-Ion Confinement And Turbulent Transport

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IAEA-CN-316-2543

Materials: via Indico sever:



[Regular Poster Twin] Impurity Powder Injection Experiments In The Large Helical Device

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IAEA-CN-316-2544

Materials: via Indico sever: 

[Regular Poster Twin] Controlling Performance Bifurcations In Large Stellarators

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IAEA-CN-316-2545

Materials: via Indico sever:



[Regular Poster Twin] Fire Mode: A New Fast Ion Regulated Regime For High-Performance, Steady-State Operation

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IAEA-CN-316-2546

Materials: via Indico sever:



[Regular Poster Twin] Overview Of Alpha Particle And Fast Ion Studies In JET DTE2 Plasmas

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Materials: via Indico sever:



Compass Upgrade: A High Field Tokamak For ITER- And DEMO-Relevant Research

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IAEA-CN-316-1891

Materials: via Indico sever:



Non-Linear MHD Investigations Of High-Confinement Regimes Without Type-I ELMs In ASDEX Upgrade And JT-60SA

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IAEA-CN-316-2023

Materials: via Indico sever:



Prediction Of Pellet Mass Thresholds For ELM Triggering In Low-Collisionality, ITER-Like Discharges

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Materials: via Indico sever:



Enhanced Plasma Performance After Pellet Injection In The Stellarator T-II

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Materials: via Indico sever:



Toroidal Modeling Of Interactions Between Internal Kink Instability And Energetic Ions In HL-2M

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Materials: via Indico sever:



Globally Self-Organized Weak Transport Barriers In KSTAR Plasmas

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Materials: via Indico sever:



Bifurcated Merging Operations Of Two Spherical Tokamak Plasmas For Reconnection Heating And Helicity Injection

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Materials: via Indico sever: 

Confinement Improvement By Low Hybrid Wave Heating In High Beta H-Mode Plasmas

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Materials: via Indico sever:



Modelling Of Runaway Electron Dynamics In Tokamak Disruptions

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Materials: via Indico sever:



Streamer Dynamics In Heavy Impurity Transport In HL-2A Plasmas

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Materials: via Indico sever:



Mechanisms Of The Global Force Reduction In Disruptions - Experimental Validation Of Mitigated And Unmitigated Vdes With The MHD Code JOREK

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IAEA-CN-316-1694

Materials: via Indico sever:



Isotope Effects Of Multiple Transport Channels In TCV Ohmic Discharge

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IAEA-CN-316-1760

Materials: via Indico sever:



Transport And Microinstability Properties Of High Performance ST40 Plasmas

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IAEA-CN-316-1900

Materials: via Indico sever:



Observation Of The Reversal Of Turbulence Phase Velocity Direction Causing Ion Temperature Stiffness In The HL-2A Tokamak

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IAEA-CN-316-2210

Materials: via Indico sever:



The JET Hybrid Scenario In D, T And D-T

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Materials: via Indico sever:



The Role Of Enhanced Turbulence Spreading And Collapsed Shear Flow In The Density Limit Of Tokamak

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IAEA-CN-316-2235

Materials: via Indico sever:



Tritium-Rich Scenario For High Fusion Power In JET DTE2

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IAEA-CN-316-1935

Materials: via Indico sever:



Nonlinear Interactions Between Multi-Scale Trapped-Electron-Modes In Presence Of High-Z Impurities

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IAEA-CN-316-2003

Materials: via Indico sever:



Development Of High Current Baseline Scenario For High Deuterium-Tritium Fusion Performance At JET

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Materials: via Indico sever:



Long Pulse High Li Steady State Scenario On KSTAR

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IAEA-CN-316-2257

Materials: via Indico sever:



Sustainment Of High Q_{min} , High \hat{I}_n Plasmas On DIII-D Towards Steady-State Advanced Tokamak Fusion

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IAEA-CN-316-1965

Materials: via Indico sever:



The Transition Of The Magnetic Field Structure With The Formation Of The Transport Barrier Measured By The 2D Density Fluctuation Measurement

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Materials: via Indico sever:



Radio-Frequency Heating Schemes In JET Deuterium-Tritium Plasmas In Preparation Of ITER

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Materials: via Indico sever:



Gyrokinetic Simulations Of Effects Of Magnetic Shear On Turbulence In EAST High \hat{I}'_p Discharge

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Materials: via Indico sever:



Evidence Of RF Sheath Mitigation In ICRF Via Insulating Antenna Structures On The Lap

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Materials: via Indico sever:



Parity Transition In Radial Structure Of Instability In Helical Plasmas

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Materials: via Indico sever:



Improved Fast Plasma Position Control By Frequency-Separated Fast Plasma Boundary Controller For In-Vessel Coils On JT-60SA

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Materials: via Indico sever:



Hydrogen Removal By Neon Gas Electron Cyclotron Wall Conditioning And Its Impact On Start-Up Of Tokamak Plasmas On QUEST

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Materials: via Indico sever:



High-Flux Frc Formation And Its Flow Drive By Spheromak Merging And Center-Solenoid Flux Injection

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Materials: via Indico sever:



Neutral Beam Experiments With Upgraded Power On Wendelstein 7-X

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Materials: via Indico sever:



Icrh-Related Impurity Source And Control Across Experiments In H, D, T Plasmas At JET-ILW

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Materials: via Indico sever:



ICRF Plasma Production And Heating In LHD

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Materials: via Indico sever:



Development And Construction Of An ICRH System Adapted To The 3D Plasma Boundary Of Wendelstein 7-X

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Materials: via Indico sever:



First Wall Erosion Induced By Charge-Exchange Neutrals On EAST

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Materials: via Indico sever:



3D Numerical Evaluation Of The DTT Divertor Pumping Performance

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Materials: via Indico sever: 

Divertor Geometry Effects On The Steady State Operation Of The PST Tokamak Using SOLPS 5.0

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IAEA-CN-316-2007

Materials: via Indico sever:



Design Of The Divertor For The DTT Facility Optimized For Power Exhaust Experiments

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IAEA-CN-316-2062

Materials: via Indico sever:



Methods And Simulations Of ELMs In Tokamak Plasmas With A 3D Nonlinear Hybrid Kinetic-MHD Code

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IAEA-CN-316-2098

Materials: via Indico sever:



Non-Thermal Fusion Burning Processes, Relevant Collective Modes And Gained Perspectives

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Materials: via Indico sever:



Access To Edge Transport Barriers And Projections Of Pedestal Performance In The SPARC Tokamak

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Materials: via Indico sever:



A Method Of Localized Wall Cleaning By Varying Ec Resonance In ADITYA-U Torus.

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Materials: via Indico sever:



Low-Frequency Alfvén Modes At DIII-D: Theoretical Interpretation Of Experimental Observations

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Materials: via Indico sever:



Achievement Of The Closed Divertor Detachment Compatible With Sustained High Confinement Core Plasma In The HL-2A Tokamak

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Materials: via Indico sever:



Physics Basis, Design And Commissioning Of The Small Aspect Ratio Tokamak (SMART)

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Materials: via Indico sever:



Projection Of Alfvén Eigenmode Stability In JET From D To DT Plasmas Through Integrated Modeling

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Materials: via Indico sever:



Heat Flux Control Experiments By Divertor Biasing On The HL-2A Tokamak

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Materials: via Indico sever:



Fast-Ion Physics In The TJ-II Stellarator: Experiments And Model Validation Activities

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Materials: via Indico sever:



Gyrokinetic Low-Recycling Edge Physics Of The Lithium Tokamak Experiment- \tilde{A} (Ltx- \tilde{A})

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Materials: via Indico sever:



Virtual Prototyping System For Design And Optimization Of The Tritium Breeding Blankets For Fusion Power Plant

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Materials: via Indico sever:



Progress Of HTS Conductor For Compact Fusion Reactor At Swip

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Materials: via Indico sever:



Advances In The Edge Particle Control By SMBI Towards Large Devices: Fueling, Pedestal, And Divertor Impact

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Materials: via Indico sever:



Next-Step Low-Aspect-Ratio Tokamak Design Studies

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Materials: via Indico sever:



Research On Redundant Manipulator With Hydraulic And Motor Drive Used In Vessel Vacuum Of Tokamak Device

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Materials: via Indico sever:



MCINO: Multi-Physics Coupling And Intelligent Neutronic Optimization Code For Tritium Breeding Blankets Of Fusion Reactors

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Materials: via Indico sever:



Design Development Of Drift Duct For Diagnostic Neutral Beam System Of ITER

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Materials: via Indico sever:



Runaway Simulation In ADITYA-U Tokamak Parameter Regime Using Vlasov Maxwell Model

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IAEA-CN-316-2231

Materials: via Indico sever:



Successful Commissioning & DEMOnstration Of ITER Relevant Rf Performance (1MW At 170 GHz) At ITER-India Gyrotron Test Facility

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Materials: via Indico sever:



Proof-Of-Principle Of Parametric Stellarator Neutronics Modeling Using SERPENT2

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Materials: via Indico sever:



Advances In Real-Time Tokamak Control Research On TCV

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Materials: via Indico sever: 

Effect Of Zonal Structures Excited By Alfvén Modes, On Turbulence

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IAEA-CN-316-2249

Materials: via Indico sever:



Interaction Of Resonant Magnetic Perturbations With Energetic Particle Modes In KSTAR Plasmas

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IAEA-CN-316-2255

Materials: via Indico sever:



EMC3-Eirene Simulations Of Main Chamber Recycling On ITER

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Materials: via Indico sever:



Speeding-Up Tokamak Edge Plasma Turbulence Simulations Using Generative Adversarial Networks In BOUT++

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IAEA-CN-316-2258

Materials: via Indico sever:



Burn-Up Fraction In DEMO Operation With The Direct Internal Recycling

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IAEA-CN-316-2260

Materials: via Indico sever:



Fourier Neural Operator For Plasma Modelling Across Simulation And Experiment

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IAEA-CN-316-2264

Materials: via Indico sever:



Fast Tools For Heat Flux Prediction Applied To W7-X Island Divertor Optimization

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IAEA-CN-316-2265

Materials: via Indico sever:



Dose Rate Estimation In IFMIF-DONES Lithium Loop Heat Exchanger Oil With Regard To The Different Beryllium-7 Trapping Efficiency

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IAEA-CN-316-2266



Materials: via Indico sever:

Transport And Losses Of Fusion-Born Alpha Particles In The Presence Of MHD Instabilities

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IAEA-CN-316-2269

Materials: via Indico sever:



Valuing Fusion Plants As Part Of A Future Decarbonized Electric Grid

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IAEA-CN-316-2272

Materials: via Indico sever:



Optimisation Of The Poloidal Field System For Advanced Divertor Configurations In Step

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IAEA-CN-316-2274

Materials: via Indico sever:



The New Layout And Regulation Of The âPulsatingâ Power Conversion System Of EU DEMO Wc11 For An Effective And Safe Control Of Pulse-Dwell Transition And Increase Of Plant Efficiency

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IAEA-CN-316-2281

Materials: via Indico sever:



Subjective Scientific Readiness Levels (SSRL) For Fusion Research And Their Application To Tokamak Exploitation

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IAEA-CN-316-2290

Materials: via Indico sever:



Heuristic Predictions Of Rmp Configurations For ELM Suppression In ITER Burning Plasmas And Implications For Divertor Performance

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Materials: via Indico sever:

A Staged Approach To Indian DEMO And Technology Roadmap

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IAEA-CN-316-2297

Materials: via Indico sever:



Geometrical And Plasma Effects On Exhaust Asymmetries In Tokamaks

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Materials: via Indico sever:



Plasma Modification And Wall Conditioning Through Boron Particulate Injection In The Full Tungsten Environment Of WEST

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IAEA-CN-316-2304

Materials: via Indico sever:



Support Laboratory For Testing And Developing Shattered Pellet Injection Components For The ITER Disruption Mitigation System

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Materials: via Indico sever:



Fast Ion Relaxation In ITER Mediated By Alfvén Instabilities Using Reduced Models

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IAEA-CN-316-2315

Materials: via Indico sever:



Turbulent Suppression Of Bursty Fast-Ion-Driven Instabilities In High-Field ST40 Experiments

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Materials: via Indico sever:



Design Novelties In DTT Power Supply And Electrical Systems

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IAEA-CN-316-2330

Materials: via Indico sever:



First Observation Of Whistler Waves And Ion Cyclotron Emission With A Frequency ω Higher Than ω_{ci} In The Ohmically Heated Plasmas In The TUMAN-3M Tokamak

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Materials: via Indico sever:



Theoretical & Experimental Fusion Platform

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IAEA-CN-316-2335

Materials: via Indico sever:



High Heat Flux Testing Technology For The Qualification Of ITER Enhanced Heat Flux First Walls

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IAEA-CN-316-2337

Materials: via Indico sever:



Significance Of Precise And Accurate Isotope Ratio Measurement Of Lithium

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IAEA-CN-316-2350

Materials: via Indico sever:



Overview Of Thermonuclear Fusion Proliferation Risks

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IAEA-CN-316-2361



Materials: via Indico sever:

IAEA-INPRO Interdisciplinary Study On Legal And Institutional Issues Of Prospective Deployment Of Fusion Facilities. Current Status

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Materials: via Indico sever:



MHD Pressure Drops Of Liquid Metal Flows Through Multiple Electrically Coupling Ducts With U-Turn Bends In Fusion Blankets

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Materials: via Indico sever:



The Concept Design Of The Step Heating And Current Drive System

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IAEA-CN-316-2377

Materials: via Indico sever:



Experimental Results And Plan For The Optimisation Of The ITER Neutral Beam Injector Prototypes

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Materials: via Indico sever:



Design And Development Of An Electron Bernstein Wave Heating And Current Drive System For MAST-U

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IAEA-CN-316-2386

Materials: via Indico sever:



Simulation Of Blanket Drop Accident In A Fusion Tokamak Reactor

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IAEA-CN-316-2387

Materials: via Indico sever:



EUROfusion Work Programme On Socio Economic Studies

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IAEA-CN-316-2389

Materials: via Indico sever:



Variance Reduction Methods For Nuclear Data Uncertainty Propagation

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Materials: via Indico sever:



Latest Progress On The Design And Development Of China ITER Helium Cooled Ceramic Breeder (HCCB) TBM System

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Materials: via Indico sever:



Isotopic Modelling Software For New Build And Fusion Fuel Applications

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Materials: via Indico sever:



Engineering Design Of An Advanced Tritium Facility

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Materials: via Indico sever:



Uk Fusion Regulation Compliance

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IAEA-CN-316-2411

Materials: via Indico sever:



Regulatory Challenge On The Implementation Of Artificial Intelligence For Controller In Nuclear Fusion Technology: In Case Of Indonesia

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Materials: via Indico sever:



Performances Of The ITER Pressure Suppression System During Unstable Steam Condensation Regimes

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IAEA-CN-316-2420

Materials: via Indico sever:



Fermi: Fusion Energy Reactor Models Integrator

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Materials: via Indico sever:



Nuclear Fusion Technology Investments, Cost Competitive And Commercial Viability

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IAEA-CN-316-2432

Materials: via Indico sever:



Impact Of Helium Ion Implantation On The Performance Of Silicon Carbide Composites For Breeder Blanket Applications

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Materials: via Indico sever:



Challenges Of Integration Of Diagnostics Into Nuclear Environment

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Materials: via Indico sever:



Activation Solver Developments Within FISPACT-II, Producing New Insights Into Nuclear Data

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IAEA-CN-316-2438

Materials: via Indico sever:



[Regular Poster Twin] Progress On Long-Pulse And ITER-Relevant-Intensity Negative Ion Beam Accelerations For ITER Neutral Beam Injector

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IAEA-CN-316-2525



Materials: via Indico sever:

[Regular Poster Twin] Contributions Of The Extended Elise And Batman Upgrade Test Facilities To The Roadmap Towards ITER NBI

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IAEA-CN-316-2526

Materials: via Indico sever:



[Regular Poster Twin] Progress Of Basic Conceptual Design Of JA DEMO

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IAEA-CN-316-2527

Materials: via Indico sever: 

[Regular Poster Twin] Assessing The Technological And Physics Maturity Required For The Design Space Of The K-DEMO

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IAEA-CN-316-2528

Materials: via Indico sever:



[Regular Poster Twin] Status And Prospects For DEMO Related Developments In Europe

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IAEA-CN-316-2529

Materials: via Indico sever:



[Regular Poster Twin] Achievement Of ELM Suppression With N=4 Rmp In EAST Towards ITER Baseline Scenario

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IAEA-CN-316-2530

Materials: via Indico sever:



[Regular Poster Twin] Runaway Electron Prevention By A Passive 3D Coil In Disruption Simulations Of The SPARC And DIII-D Tokamaks

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Materials: via Indico sever:



[Regular Poster Twin] Integration Of Rmp ELM Control With Divertor Detachment In The DIII-D Tokamak

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IAEA-CN-316-2532

Materials: via Indico sever:



[Regular Poster Twin] Investigation Of Rmp-Induced Ion-Scale Turbulence In The Pedestal And Its Role In Accessing The Optimized High-Confinement ELM-Free State

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IAEA-CN-316-2533

Materials: via Indico sever:



[Regular Poster Twin] Resistive And 3D Effects In ELM-Suppressed H-Mode With Resonant Magnetic Perturbations In ASDEX Upgrade

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Materials: via Indico sever:



First Observation Of Edge Impurity Behavior With $N=1$ Rmp Application In EAST L-Mode Plasma

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Materials: via Indico sever:



The Compact Radiative Divertor In ASDEX Upgrade And EU-DEMO, Experiments & Simulation

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Materials: via Indico sever:



Impact Of H, D, T And D-T Hydrogenic Isotopes On Detachment In JET ITER-Like Wall Low-Confinement Mode Plasmas

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IAEA-CN-316-2021

Materials: via Indico sever:



Edge Fluctuation-Induced Inward Particle Flux Caused By The Sawtooth Crash In The HL-2A NBI Heated Plasmas

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Materials: via Indico sever:



Interpretative Modelling Of MAST-U Super-X And Conventional Divertor Configurations

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IAEA-CN-316-2063

Materials: via Indico sever:



Ti/Te Effects On Transport And Turbulence In EAST Low Q₉₅ Plasmas

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Materials: via Indico sever:



2D Characterization Of Radiative Divertor Regimes With Impurity Seeding In DIII-D H-Mode Discharges

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IAEA-CN-316-2423

Materials: via Indico sever:



Core Electron Temperature Turbulence And Transport During Sawtooth Oscillations In The DIII-D Tokamak

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IAEA-CN-316-2190

Materials: via Indico sever:



Overview Of Plasma-Wall Interactions Studies In JET-ILW H D, T And DT Campaigns

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Materials: via Indico sever:



A New Plasma Control System And Its Application In First 1MA Operation On HL-2M

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IAEA-CN-316-2134

Materials: via Indico sever:



Preliminary Compact Torus Injection Experiments On Keda Torus Experiment Reversed Field Pinch

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IAEA-CN-316-2360

Materials: via Indico sever:



Scaling Of Intrinsic Toroidal Rotation With Stored Energy In Ohmic Plasmas Of ADITYA-U Tokamak

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Materials: via Indico sever:



Gyrokinetic Study Of Fast Ion Effects On Alfvenic Modes And Microturbulence In KSTAR Plasmas

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Materials: via Indico sever:



Experimental And Gyrokinetic Studies Of Turbulence And Transport Under The Stepping-Up Of NBI Power On EAST

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Materials: via Indico sever:



A Neural Network-Based Semi-Empirical Turbulent Transport Model Dekanis For Integrated Simulations Of Upcoming Fusion Devices

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Materials: via Indico sever:

The Effect Of Intermittent Divertor Filaments On The Divertor Heat Flux In NSTX

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IAEA-CN-316-2278

Materials: via Indico sever:



[Rapporteured] Successful Prediction Of Tokamak Transport In The L-Mode Regime

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IAEA-CN-316-1598

Materials: via Indico sever:



[Rapporteur] The L-Mode Tokamak Confinement, From Full-Radius Integrated Modelling Validation On ASDEX Upgrade To Reactor Predictions

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Materials: via Indico sever:



Hydrogen Isotope Effects On Microturbulence And Linear To Saturated Ohmic Confinement Transition

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Materials: via Indico sever:



Power And Isotope Effects On The ITER Baseline Scenario With W And W-Equivalent Radiators In DIII-D

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Materials: via Indico sever:



Modelling Of Plasma Facing Component Erosion, Impurity Migration, Dust Transport And Melting Processes At JET-ILW

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Materials: via Indico sever:



First Results Of Laser-Induced Desorption α Quadrupole Mass Spectrometry (LID-QMS) At JET-ILW

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Materials: via Indico sever:



Enhancement In Plasma Performance And Impurity Control Using Argon-Hydrogen Fueled Glow Discharge Wall Conditioning In ADITYA-U Tokamak

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Materials: via Indico sever:

Equilibrium, Stability, And Disruption Calculations Supporting The Design And Assembly Of The SPARC Tokamak

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Materials: via Indico sever:



Effects Of System Nonuniformity On Toroidal Alfvén Eigenmodes Nonlinear Saturation

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Materials: via Indico sever:



J-TEXT'S Recent Efforts On Machine Learning Cross Tokamak Disruption Prediction

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IAEA-CN-316-1618

Materials: via Indico sever:



Towards Burning Plasmas: Theory And Simulations

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Materials: via Indico sever:

Plasma Rotation Effects On The Resistive Wall Modes In The Negative Triangularity Tokamaks

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Materials: via Indico sever:



Upgrade Of Relax Machine For Studying Both Low Aspect Ratio Circular Tokamak And Reversed-Field Pinch Plasmas

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Materials: via Indico sever: 

Helical Fusion S Pathway To Fusion

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Materials: via Indico sever:



Collisional-Radiative Simulation Of Impurity Assimilation, Radiation And MHD Response After ITER Shattered Pellet Injection

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IAEA-CN-316-1746



Materials: via Indico sever:

Whole Device Modeling Of The FuZE Sheared-Flow-Stabilized Z Pinch

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Materials: via Indico sever:



Demonstration Of Refueling/Refluxing Of FRC Core Via Axial Plasmoid Injection

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Materials: via Indico sever:



Recent Advances In The Understanding Of Fluctuation Activities Of High-Beta Plasma In RT-1

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Materials: via Indico sever:



Progress In Muon-Catalyzed Fusion Research

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Materials: via Indico sever:

Planning Study On Korea Fusion Engineering Advanced Test Complex

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Materials: via Indico sever:



Development Of Virtual KSTAR For The Acceleration Of Fusion Research

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Materials: via Indico sever:



Recent Results From, And Plans For, LTX-Beta

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Materials: via Indico sever:



The Harmonia Project: A Joint Effort To Study The Interplay Between Heavy Impurity Transport And The Current Density Profile Driven By The Lower Hybrid Wave In The West Tokamak

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IAEA-CN-316-2006



Materials: via Indico sever:

Impact Of An Electron-Cyclotron Source On Tokamak Turbulence

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IAEA-CN-316-2008

Materials: via Indico sever:



Neutral Beam Efficiency In A Thermonuclear Neutron Source Tokamak

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IAEA-CN-316-2011

Materials: via Indico sever:



Path To Commercial Fusion Energy Based On Sheared-Flow-Stabilized Z Pinches

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Materials: via Indico sever:



Progress Towards Fast Ion Study In Thailand Tokamak-1

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IAEA-CN-316-2044

Materials: via Indico sever:



A Public-Private Development Path For The High-Field Compact Magnetic Mirror Approach To Fusion

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IAEA-CN-316-2046

Materials: via Indico sever:



Accelerating Fusion Energy Toward A Viable Fusion Power Plant: Kyoto Fusioneering'S Pathway To Commercialisation

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Materials: via Indico sever:



Helicon And High Harmonics Fast Waves (HHFW) In FRC Configurations

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Materials: via Indico sever:



The High-Field Axisymmetric Magnetic Mirror Approach To Fusion

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Materials: via Indico sever: 

Exploring The Negative-Triangularity Pathway To Fusion With Manta

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Materials: via Indico sever:



Inter-ELM Pedestal Turbulence And Edge Current Density Dynamics

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IAEA-CN-316-2285

Materials: via Indico sever:



The Physics Basis For A Centrifugal Mirror Machine

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Materials: via Indico sever:



Integrated Plasma And Engineering Design And Assessment For Tokamak Reactor Components

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Materials: via Indico sever:



Stellarator Fusion Power Plant Enabled By Arrays Of Planar Coils

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IAEA-CN-316-2381

Materials: via Indico sever:



Reimagining The Design Of Fusion Energy Systems In Support Of A Just Energy Transition

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Materials: via Indico sever:



Using The Sociotechnical Readiness Level Framework To Inform The Design And Development Of Fusion Power Plants

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Materials: via Indico sever:



Technological Advances Towards A Possible Liquid Lithium PFC-Based Pathway To More Economically Attractive Magnetic Fusion Reactors

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IAEA-CN-316-2413

Materials: via Indico sever:



The Global Fusion Industry In 2023 - Results Of The Fusion Industry Association Survey Providing An Overview Of The Plans, Timelines, And Investment In Commercial Fusion

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IAEA-CN-316-2417

Materials: via Indico sever:



The Princeton Field Reversed Configuration (PFRC) For Compact Nuclear Fusion Power Plants

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Materials: via Indico sever:



An Assessment Of The Future Commercial Viability Of Selected Raw Materials Including Beryllium, Tungsten And Zirconium For Use In A Global Fleet Of Fusion Reactors

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Materials: via Indico sever:



Construction And Preliminary Results Of Huazhong Field Reversed Configuration Device

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IAEA-CN-316-2433

Materials: via Indico sever:



Fusion Studies In Small And Tabletop Devices Based On Scalability Properties Of Plasma Focus And Exploration Of New Operational Regimes

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Materials: via Indico sever:



Towards Visualising Digital Twins For Accelerating Fusion Research

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Materials: via Indico sever: 

Development Of Advanced Steels For High Temperature Breeder Blanket Applications

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IAEA-CN-316-2467

Materials: via Indico sever:



Investigating Tritium Retention In Tungsten Plasma-Facing Wall Components At The Joint European Torus (JET)

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Materials: via Indico sever:



Fusion Energy: Prosperity, Challenge And Evolution

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Materials: via Indico sever:



Technology Readiness Level Assessment Of Magnetic Confinement Fusion Based On The Tokamak Principle

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Materials: via Indico sever:



Public Engagement And Workforce Development At Pppl

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Materials: via Indico sever:



Multiobjective Lifecycle Budget Allocation For Fusion Power Plant Installation

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Materials: via Indico sever:



Plasma Net: A Community For Engagement And Workforce Development In The Us

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IAEA-CN-316-2602

Materials: via Indico sever:



Experimental Conditions To Access High-Performance H-Mode Plasmas With Small ELMs At Low Collisionality In JET-ILW

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Materials: via Indico sever:



Surrogates Of The 3D Edge Turbulence Code Storm Via Neural PDE Solvers

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Materials: via Indico sever:



Constrained Multi-Concept Bayesian Optimization For Fusion Applications

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Materials: via Indico sever:



First Integration Of Negative Triangularity Plasmas With High Core Radiation Fraction

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IAEA-CN-316-2608

Materials: via Indico sever:



The ITER ICRF System: Latest Technological Developments, Coupling Studies And Compatibility With High Z Wall

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IAEA-CN-316-2609

Materials: via Indico sever:



Fundamental Data Activities At The Iaea In Support Of Fusion Energy Research

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IAEA-CN-316-2610

Materials: via Indico sever:



[Regular Poster Twin] Hydrogen Isotope Effects On Microturbulence And Linear To Saturated Ohmic Confinement Transition

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IAEA-CN-316-2488

Materials: via Indico sever:



[Regular Poster Twin] A Neural Network-Based Semi-Empirical Turbulent Transport Model Dekanis For Integrated Simulations Of Upcoming Fusion Devices

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IAEA-CN-316-2489

Materials: via Indico sever:



[Regular Poster Twin] Gyrokinetic Study Of Fast Ion Effects On Alfvénic Modes And Microturbulence In KSTAR L-Mode Plasmas

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IAEA-CN-316-2490

Materials: via Indico sever:



[Regular Poster Twin] Overview Of Plasma-Wall Interactions Studies In JET-ILW H D, T And DT Campaigns

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IAEA-CN-316-2491

Materials: via Indico sever:



[Regular Poster Twin] 2D Characterization Of Radiative Divertor Regimes With Impurity Seeding In DIII-D H-Mode Discharges

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IAEA-CN-316-2492

Materials: via Indico sever:



[Regular Poster Twin] Interpretative Modelling Of MAST-U Super-X And Conventional Divertor Configurations

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IAEA-CN-316-2494

Materials: via Indico sever:



[Regular Poster Twin] Impact Of H, D, T And D-T Hydrogenic Isotopes On Detachment In JET ITER-Like Wall Low-Confinement Mode Plasmas

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IAEA-CN-316-2500

Materials: via Indico sever:



[Regular Poster Twin] The Compact Radiative Divertor In ASDEX Upgrade And EU-DEMO, Experiments & Simulation

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Materials: via Indico sever:



[Regular Poster Twin] Radio-Frequency Heating Schemes In JET Deuterium-Tritium Plasmas In Preparation Of ITER

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IAEA-CN-316-2507

Materials: via Indico sever:



[Regular Poster Twin] Sustainment Of High Q_{min} , High \hat{I}_n Plasmas On DIII-D Towards Steady-State Advanced Tokamak Fusion

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IAEA-CN-316-2514

Materials: via Indico sever:



[Regular Poster Twin] Long Pulse High Li Steady State Scenario On KSTAR

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IAEA-CN-316-2515

Materials: via Indico sever:



[Regular Poster Twin] Tritium-Rich Scenario For High Fusion Power In JET DTE2

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Materials: via Indico sever:



[Regular Poster Twin] The JET Hybrid Scenario In D, T And D-T

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IAEA-CN-316-2517

Materials: via Indico sever: 

[Regular Poster Twin] Mechanisms Of The Global Force Reduction In Disruptions - Experimental Validation Of Mitigated And Unmitigated Vdes With The MHD Code Jorek

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IAEA-CN-316-2518

Materials: via Indico sever:



[Regular Poster Twin] Modelling Of Runaway Electron Dynamics In Tokamak Disruptions

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IAEA-CN-316-2519

Materials: via Indico sever:



[Regular Poster Twin] Bifurcated Merging Operations Of Two Spherical Tokamak Plasmas For Reconnection Heating And Helicity Injection

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IAEA-CN-316-2520

Materials: via Indico sever:



[Regular Poster Twin] Toroidal Modeling Of Interactions Between Internal Kink Instability And Energetic Ions In HL-2M

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IAEA-CN-316-2521

Materials: via Indico sever:



[Regular Poster Twin] Prediction Of Pellet Mass Thresholds For ELM Triggering In Low-Collisionality, ITER-Like Discharges

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IAEA-CN-316-2522

Materials: via Indico sever:



[Regular Poster Twin] Non-Linear MHD Investigations Of High-Confinement Regimes Without Type-I ELMs In ASDEX Upgrade And JT-60SA

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IAEA-CN-316-2523

Materials: via Indico sever:



[Regular Poster Twin] Development Of High Current Baseline Scenario For High Deuterium-Tritium Fusion Performance At JET

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IAEA-CN-316-2524

Materials: via Indico sever:



[Regular Poster Twin] The L-Mode Tokamak Confinement, From Full-Radius Integrated Modelling Validation On ASDEX Upgrade To Reactor Predictions

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IAEA-CN-316-2579



Materials: via Indico sever:

[Regular Poster Twin] Successful Prediction Of Tokamak Transport In The L-Mode Regime

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IAEA-CN-316-2580

Materials: via Indico sever:



[Pd Poster Twin] Power And Isotope Effects On The ITER Baseline Scenario With W And W-Equivalent Radiators In DIII-D

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IAEA-CN-316-2611

Materials: via Indico sever:



[Pd Poster Twin] First Results Of Laser-Induced Desorption α " Quadrupole Mass Spectrometry (LID-QMS) At JET-ILW

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Materials: via Indico sever:



[Regular Poster Twin] Commonwealth Fusion Systems' High-Field Path To Fusion Energy

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Materials: via Indico sever:



[Regular Poster Twin] Design And Technology Maturation Of General Atomics Steady-State Advanced Tokamak Fusion Pilot Plant

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IAEA-CN-316-2584

Materials: via Indico sever:



[Regular Poster Twin] Pathways To Fusion Energy â" The ITER Contributions And Views

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Materials: via Indico sever:



[Regular Poster Twin] The European Path Towards Fusion Electricity

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IAEA-CN-316-2586

Materials: via Indico sever:



[Regular Poster Twin] Pathways To Fusion Energy At The QST

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Materials: via Indico sever:

[Regular Poster Twin] The High Field Stellarator Direct Path To Fusion Energy

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Materials: via Indico sever:



[Regular Poster Twin] Ex-Fusion: Advancing High Power High Repetition Laser As A Platform For Laser Fusion Power

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Materials: via Indico sever:



Commonwealth Fusion Systems' High-Field Path To Fusion Energy

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Materials: via Indico sever:



Design And Technology Maturation Of General Atomics Steady-State Advanced Tokamak Fusion Pilot Plant

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Materials: via Indico sever:



Pathways To Fusion Energy â" The ITER Contributions And Views

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Materials: via Indico sever:



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Pathways To Fusion Energy At The QST

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The High Field Stellarator Direct Path To Fusion Energy

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Inertial Fusion Energy With High-Gain Proton Fast Ignition

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IAEA-CN-316-2294

Materials: via Indico sever:



Ex-Fusion: Advancing High Power High Repetition Laser As A Platform For Laser Fusion Power

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[Regular Poster Twin] Reimagining The Design Of Fusion Energy Systems In Support Of A Just Energy Transition

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