

## ***GRADUATE STUDENT SEMINAR***

**Guest Speaker: Nikolai Konovalov**  
**University of Notre Dame**

**Date:** Monday, April 5, 2021

**Time:** 3:00 PM

**Location:** Zoom

**Zoom URL:** [notredame.zoom.us/j/95815357423](https://notredame.zoom.us/j/95815357423)



***Lecture Title:***  
**Quillen F-isomorphism Theorem**

***Abstract***

Group cohomology is notoriously hard and yet interesting invariant. In 1971, D. Quillen suggested a way to approximate (up to nilpotents) the mod  $p$  cohomology ring of a group in terms of cohomology rings of its elementary  $p$ -subgroup. In my talk, I am going to briefly discuss the proof of his theorem, possible corollaries, and if time permits, one interesting generalization in terms of the Steenrod operations.