

TOPOLOGY SEMINAR

Guest Speaker: Irina Bobkova
University of Rochester

Date: Tuesday, November 15, 2016

Time: 3:00 PM

Location: 258 Hurley Hall



Lecture Title:

The $K(2)$ -local Picard group at the prime 2

Abstract

The group of invertible objects in a symmetric monoidal category is a basic invariant of the category. The Picard group of the category of spectra is known to consist only of the sphere spectrum and its suspensions. The problem becomes significantly richer when the category of spectra is localized with respect to Morava K -theories. The Picard group of the category of $K(2)$ -local spectra is known for odd primes. I will talk about finite resolutions in the $K(2)$ -local category and how we use them to compute the Picard group of the $K(2)$ -local category in the last open case, $p=2$. This is joint work with Beaudry, Goerss and Henn.