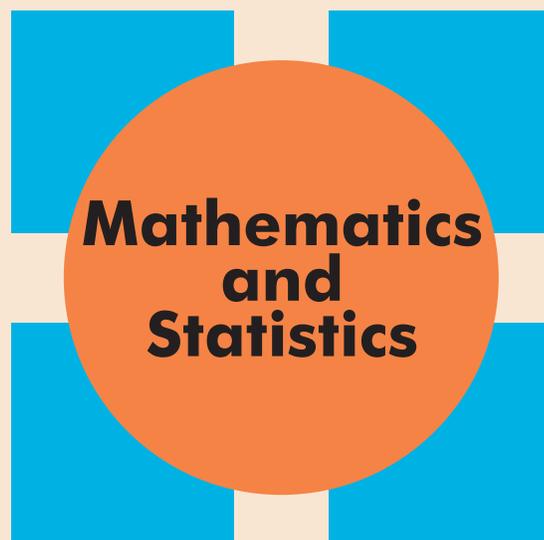


TOPOLOGY SEMINAR

Sarah Petersen
MPIM Bonn

The $RO(C_2)$ -graded homology of C_2 -equivariant Eilenberg–MacLane spaces



Date: Monday November 14, 2022

Time: 1:00 PM

Zoom link:

<https://uregina-ca.zoom.us/j/99127226830?pwd=bnFQR1R3UUdyWUxqSS9JMExMRIZwZz09>

Abstract: This talk describes an extension of Ravenel–Wilson Hopf ring techniques to C_2 -equivariant homotopy theory. Our main application and motivation for introducing these methods is a computation of the $RO(C_2)$ -graded homology of C_2 -equivariant Eilenberg–MacLane spaces. The result we obtain for C_2 -equivariant Eilenberg–MacLane spaces associated to the constant Mackey functor \mathbb{F}_2 gives a C_2 -equivariant analogue of the classical computation due to Serre at the prime 2. We also investigate a twisted bar spectral sequence computing the homology of these equivariant Eilenberg–MacLane spaces.