



SCMS Seminar

TRANSFER MAPS OF PROFINITE GROUPS AND THEIR APPLICATION IN CHROMATIC HOMOTOPY THEORY

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Time: Fri, Nov. 21, 16: 00-17: 00

Venue: Room 106, SCMS

Tencent Meeting ID: 474 673 152 Password: 259776

Abstract:

For a finite cover of spaces from E to B , there is a "wrong way map", the transfer map, from the cohomology of E to the cohomology of B . This agrees with the transfer map in group cohomology. We will define a similar transfer map for a profinite group with finite cohomology dimension. As an application, after $K(1)$ -localization, the classical J -homomorphism can be interpreted as a profinite transfer map. In joint work in progress with Ningchuan Zhang, we extend this idea to define and study profinite transfers between homotopy fixed points of the Morava E -theory for closed subgroups of the Morava stabilizer group. This defines analogs of the J -homomorphism at higher chromatic heights.