Topology Seminar

UNIVERSITY OF NOTRE DAME
Department of Mathematics

Speaker: Paul VanKoughnett
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Tuesday, March 20, 2018
2:30 PM
258 Hurley Hall

Title: Localizations of E-theory

Abstract:

Chromatic homotopy theory uses the theory of formal groups from algebraic geometry to construct new topological invariants. The tightest link between the two worlds is Morava E-theory, a homotopical avatar of the space of deformations of a formal group of fixed height. We study what happens when E-theory undergoes chromatic localization, forcing the height of this formal group to decrease. We give modular descriptions of the resulting objects, and applications to the study of power operations in homotopy theory.