

*Department of Mathematics,
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Math 292 - Topology Seminar

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University of Notre Dame

Toroidal integer homology spheres have irreducible $SU(2)$ -representations

Abstract:

The fundamental group is one of the most powerful invariants to distinguish closed three-manifolds. One measure of the non-triviality of a three-manifold is the existence of non-trivial $SU(2)$ -representations. In this talk I will show that if an integer homology three-sphere contains an embedded incompressible torus, then its fundamental group admits irreducible $SU(2)$ -representations.

This is joint work with Tye Lidman and Raphael Zentner.

Host: Jianfeng Lin

Tuesday, February 23, 2021

11:30 AM

Zoom information: Meeting ID: 933 6734

4286 Password: topology
