Mathematics, Statistics, and Computer Science   **@ UIC**

Geometry, Topology and Dynamics Seminar

A Lagrangian Floer theory in the pillowcase and traceless representations of tangles.

Paul Kirk (Indiana University)

Abstract: I'll describe a construction of a $Z/4$ graded Lagrangian-Floer theory for immersed curves in the pillowcase $(T^2/(Z/2))$ and apply it to character varieties of traceless representations of tangles in 3-manifolds. I'll illustrate with examples and speculate about its connection to Kronheimer-Mrowka's singular intanton knot floer homology.

Monday, March 9 at 3:00 PM in SEO 636