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

Geometry, Topology and Dynamics Seminar

String Compactification and Geometry

Lara Anderson (Virginia Tech)

Abstract: I will provide a brief overview of compactification in string theory and the way in which the structure of the physical theory is intrinsically intertwined with questions in differential and algebraic geometry. In particular, I will highlight the ways in which string theory links the structure of diverse geometric moduli spaces in subtle and often powerful ways. This will include 3- (complex) dimensional Calabi-Yau manifolds and their fibration structures and connections to moduli spaces of stable sheaves and Hitchin systems.

We will be going for a seminar dinner. Email schapos@uic.edu if you'd like to join.

Monday, April 18 at 3:00 PM in SEO 636