BOSTON UNIVERSITY GEOMETRY SEMINAR

Supersymmetric Chern-Simons Theory on a Contact Manifold

Chris Beasley (Northeastern)

Wednesday Oct. 19, 4-5 pm in MCS B21. Tea 3:45-4 in MCS 144.

Abstract: Introduced by Witten in 1989, Chern-Simons gauge theory serves as the premier example of a topological quantum field theory (TQFT). In this talk, based upon joint work with Jonathan Weitsman, I will discuss a new class of three-dimensional TQFTs which derive from the supersymmetric extension of Chern-Simons theory. Among their interesting features, the new TQFTs involve both contact geometry and D-branes in an essential way.