Temple University Geometry Seminar

Robert Lipshitz

Columbia University

will speak on

An introduction to bordered Floer homology

ABSTRACT: Heegaard Floer homology is a holomorphic curve invariant of 3– and 4–manifolds inspired by gauge theory. While it contains lots of topological information, it remains difficult to compute. Bordered Floer homology attempts to compute Heegaard Floer homology by decomposing 3–manifolds along surfaces. In this talk, we will outline the basic structure of bordered Floer homology, and then motivate its construction by considering a combinatorial analogue in terms of partial planar grid diagrams. This is joint work in progress with Peter Ozsvath and Dylan Thurston.

Tuesday, 17 March 2009
Lecture at 2:40 pm
Room 617, Wachman Building
Department of Mathematics