

Stanford Department of Mathematics Colloquium

Thursday, February 18
4:15 p.m.
Bldg. 380, Room 380-W.

BORDERED HEEGAARD FLOER HOMOLOGY

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Abstract

Heegaard Floer homology is an invariant for three- and four-manifolds defined, in joint work with Zoltan Szabo, using methods from symplectic geometry. After reviewing properties and some applications of these invariants I will describe an extension, bordered Heegaard Floer homology, to three-manifolds with boundary. I will discuss the algebraic structure of this extension, and give its relationship with the earlier invariants for closed three-manifolds. This is joint work with Robert Lipshitz and Dylan Thurston.

<http://math.stanford.edu/coll/0910/>