

Stanford Department of Mathematics Colloquium

February 24

4:15 p.m.

Bldg. 380, Room 380-W.

How complicated are symplectic manifolds?

Paul Seidel, MIT and Simons Center for Geometry and Physics

Abstract

I will discuss recent progress on symplectic manifolds with boundary and their invariants. As has been understood for a long time, they inherit a rich structure from the boundary dynamics. Via various geometric constructions and their algebraic counterparts, this structure can be manipulated fairly freely. However, substantial open questions remain, just like in the case of closed symplectic manifolds, which I will review if time permits.