

GAUGE THEORY & TOPOLOGY SEMINAR

Mohammed Abouzaid

A plethora of exotic Stein manifolds

In real dimensions greater than 4, I will explain how a smooth manifold underlying an affine variety admits uncountably many distinct (Wein)stein structures, of which countably many have finite type, and which are distinguished by their symplectic cohomology groups. Starting with a Lefschetz fibration on such a variety, I shall perform an explicit sequence of appropriate surgeries, keeping track of the changes to the Fukaya category and hence, by understanding open-closed maps, obtain descriptions of symplectic cohomology after surgery. (joint work with P. Seidel)

Date: Friday, October 15

Time: 3:30-4:30

Location: Science Center 507

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<http://math.harvard.edu/~acotton/seminar.html>