

Northern California Symplectic Geometry Seminar

BERKELEY – DAVIS – SANTA CRUZ – STANFORD

Monday, March 5, 2012

BERKELEY, 105 LATIMER HALL

(SE from Evans Hall: see <http://berkeley.edu/map/maps/BC56.html>)

2:30–3:30

Luis Diogo (Stanford)

Symplectic homology rings from Gromov-Witten theory

Abstract: Symplectic homology is a powerful invariant of a large class of open symplectic manifolds, but it can be very difficult to compute. We describe a chain complex for the symplectic homology of the complement of an ample divisor on a complex projective manifold. This complex involves holomorphic curves and gradient flow lines, and can sometimes be computed explicitly. Similar information can be used to describe the pair-of-pants product. We will illustrate the construction with the example of the cotangent bundle of the 2-sphere. This is joint work with Samuel Lisi.

3:30–4:15

Tea Break

4:15–5:15

Sobhan Seyfaddini (UC Berkeley)

C^0 limits of Hamiltonian paths and spectral invariants

Abstract: After briefly reviewing spectral invariants, I will write down an estimate which, under certain assumptions, relates the spectral invariants of a Hamiltonian to the C^0 -distance of its flow from the identity. I will also show that, unlike the Hofer norm, the spectral norm is C^0 -continuous on surfaces.

Please contact alanw@math.berkeley.edu to arrange parking.

There will be a dinner at 6:00

—D. Auroux, Y. Eliashberg, D. Fuchs, V. Ginzburg, M. Hutchings, E. Ionel, R. Montgomery, A. Weinstein