2:30–3:30, room 740 Evans
Yasha Eliashberg (Stanford)
Symplectic topology of polynomial and rational convexity (Floer memorial lecture)

Abstract: The notions of polynomial convexity in complex analysis are tightly related to symplectic geometry and topology. In the talk I’ll explore this link for understanding (symplectic) topology of polynomially and rationally convex domains. The talk is based on my joint work with Kai Cieliebak, and a joint work of Stefan Nemirovski and Kyler Siegel.

3:30–4:15 — Tea/coffee in 1015 Evans or nearby cafes

4:15–5:15, room 740 Evans
Jean Gutt (Berkeley)
Positive $S^1$-equivariant symplectic homology as an invariant for some contact manifolds.

Abstract: We will see how positive $S^1$-equivariant symplectic homology allows one to tackle questions about the number of non-diffeomorphic contact structures on the sphere, or the minimal number of periodic Reeb orbits on some contact manifolds. This will be done by establishing properties of positive $S^1$-equivariant symplectic homology, namely a computational property, a functoriality property and an invariance property.

There will be dinner at 6:00pm

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