David Li-Bland (Berkeley)
“q-Poisson structures on the moduli spaces of flat connections over colored surfaces”

Abstract: Suppose that $\Sigma$ is an oriented surface and $\{x_i\}$ is a set of marked points on the boundary of $\Sigma$ such that every component of $\Sigma$ contains a marked point. Extending a recent result of Massuyeau-Turaev, we use an intersection form to describe the q-Poisson structure on the space of $G$-valued representations of the fundamental groupoid, $\Pi(\Sigma, \{x_i\})$. Next we use this result to study the Poisson structure on the moduli space of flat connections over a 'colored surface' $\Sigma$. Here, a ‘coloring’ of $\Sigma$ refers to a decomposition of $\Sigma$ into domains, where each domain is ‘colored’ by a distinct structure group, and the domain walls are ‘colored’ by coisotropic relations between the structure groups.

Andreas Floer Memorial Lecture
David Nadler (Berkeley)
“Singular support of Lagrangian branes”

Abstract: The notion of singular support is the starting point of microlocal geometry and plays a meaningful role in the study of Lagrangian branes. As an application of its content, we will describe how to sheafify the Fukaya category of a Weinstein manifold in analogy with the localization of coherent sheaves in algebraic geometry. The method provides a concrete description of the so-called infinitesimal theory and suggests diverse conjectural descriptions for the partially wrapped theory.

There will be a dinner at 6pm.

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