

**Speaker:** **Tim Perutz**  
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**Title:** A hypercube for fixed-point Floer homology

**Abstract:**

Fixed-point Floer homology gives a Hamiltonian-invariant lower bound for the number of fixed points of a symplectomorphism, but it is often hard to compute. Seidel has conjectured that the Floer homology of an arbitrary composite of Dehn twists, along exact Lagrangian spheres in an exact symplectic manifold, should be isomorphic to the homology of a Hochschild-style complex built from cycles of intersection points between the spheres. In this talk I'll explain the groups and maps in the statement of the conjecture and give a status report on my efforts to prove it. Allergy advice: A- infinity categories may be present in small amounts.