

# Seminar on mirror symmetry and representation theory

Tuesday, May 16, 5:00, MIT, Room 2-132.

**Jake Solomon (MIT)**

**Abstract.** I plan to discuss a conjecture of the paper "D-branes from Matrix factorizations" of K. Hori and J. Walcher. In particular, the homology of a certain matrix factorization should be dual to the Floer homology of the special Lagrangian that arises as the real part of the quintic threefold. The theory of open Gromov-Witten invariants gives a natural approach toward mathematically defining and verifying these conjectures.

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