Abel-Jacobi mappings and mirror symmetry for open strings.

David Morrison (UC Santa Barbara)

Abstract: This is a report on work in progress with Hans Jockers and Johannes Walcher. Consider a boundary condition for open strings which takes the form of a homologically trivial algebraic cycle whose Abel-Jacobi image is nontrivial. How can we predict the special Lagrangian cycle on the mirror which provides the mirror boundary condition?