

**MIRROR SYMMETRY, LANGLANDS DUALITY, AND  
HODGE THEORY**

FRIDAY OCTOBER 12, AT 4 PM, IN CUPPLES I ROOM 199

**Speaker:** Tony Pantev (U Penn)

**Abstract:** I will discuss a construction of the homological mirror correspondence on algebraic integrable systems arising as moduli of flat bundles on curves. The focus will be on non-abelian Hodge theory as a tool for constructing objects in the Fukaya category. I will discuss specific examples of the construction building automorphic sheaves on moduli spaces of bundles that are realized as intersections of quadrics. This is a joint work with Ron Donagi and Carlos Simpson.