

November 12

Dusa McDuff, SUNY at Stony Brook

Symplectic fibrations

A symplectic manifold M has a very interesting infinite dimensional group of automorphisms, but in most cases rather little is known about it. The talk will describe ways of understanding some of its properties by studying associated symplectic fibrations with fiber M . A particularly interesting case is when the fibration has base equal to the 2-sphere. If the structural group of the fibration reduces to the Hamiltonian subgroup one can get useful information by looking at operations in quantum homology.