

Orbifold string topology

Abstract:

In this talk I will explain the relation that exists between homological invariants of free loop spaces and invariants that arise from Hochschild co/homology on certain differential graded algebras. I will focus on the two extreme cases of interest when dealing with orbifolds, namely the free loop space of a manifold and the free loop space of the classifying space of a finite group. I will finish by stating a result on the string topology of manifolds with finite fundamental group.