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Cummington St., Boston, MA 02215. *Moduli spaces of curves with group actions and stringy
algebraic structures.*

We will explain how the moduli space of pointed curves with the action of a finite group is responsible for the algebraic structures arising in stringy cohomology (and stringy K-theory) and, by taking the appropriate notion of invariants, yields orbifold cohomology (and orbifold K-theory). We describe some variations and generalizations of these constructions. (Received September 06, 2006)