

1154-14-1605

Levi Heath* (levi.heath@colostate.edu). *Cycle-valued quantum Serre duality for quasimaps*. Preliminary report.

The moduli space of stable quasimaps is another compactification of the space of Kontsevich's space of stable maps. In this talk we will walk through the sketch of a proof of quantum Serre duality for stable quasimaps. Originally proved by Givental, quantum Serre duality refers to a correspondence between, for instance, the Gromov-Witten invariants of a degree d hypersurface in \mathbb{P}^n and the Gromov-Witten invariants of the line bundle $\mathcal{O}(-d)$ over \mathbb{P}^n . We will show how a cycle-valued statement comparing virtual classes recovers a relationship between generating functions of quasimap invariants. (Received September 16, 2019)