

**SCMS Seminar**

## **COHOMOLOGICAL HALL ALGEBRAS IN GEOMETRIC REPRESENTATION THEORY II**

**Speaker: Tommaso Botta**

**Columbia University**

**Time: Thu., May. 28th, 14:00-15:30**

**Venue: Room 446, SCMS**

**Abstract:** I will focus on a new distinguished class of modules for the CoHA of a tripled quiver with its canonical cubic potential, which geometrically arise from studying the moduli space of quasimaps to quiver varieties. Additionally, I will explain the interplay between this construction and symplectic duality. Specifically, I will discuss how to descend the Hall action on the cohomology of quasimaps to a quiver variety to an action of the quantized symplectic dual variety, namely the Coulomb branch. This is based on joint work in preparation with Spencer Tamagni.