

## **RESEARCH PLANS IN SCMS - FOCUSING ON POLYNOMIALITY AND BCOV EQUATIONS OF GW**

## POTENTIALS

## Speaker: Sanghyeon Lee Shanghai Center for Mathematical Sciences

Time: Fri, Dec 2nd, 13:30-14:00 Venue: Room 102, SCMS Abstract:

In this talk, I will explain my research plans. Mainly I will study polynomiality and BCOV equations of GW potentials by using moduli space of N-MSP fields developed by Chang-Guo-Li as a master space. I will try to find a way to apply this idea to 1) CY3 in Grassmannian 2) Orbifold CY3 in weighted projective spaces. I will explain difficulties expected to arise in these cases and what we need to overcome that difficulties.

Also I will introduce my other research plans on higher genus quantum Lefschetz property and virtual cycles from symmetric 3-term obstruction theories.