

MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
DEPARTMENT OF MATHEMATICS

**Geometric Analysis Seminar**

Wednesday, May 4, 2022

**5:00pm – 6:00pm | Room 2-131**

**Antoine Song**

*(Berkeley)*

**“The spherical Plateau problem.”**

**Abstract**

For any closed oriented manifold with fundamental group  $G$ , or more generally any group homology class for a discrete group  $G$ , I will discuss an infinite codimension Plateau problem in a Hilbert classifying space for  $G$ . For instance, for a closed oriented 3-manifold  $M$ , the intrinsic geometry of any Plateau solution is given by the hyperbolic part of  $M$ .