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# Joint Geometric Analysis Seminar

(Part of MIST program)

## *The spherical Plateau problem*

*Dr. Antoine Song*  
*University of California Berkeley*

### Abstract

For any closed oriented manifold with fundamental group  $G$ , or more generally any group homology class  $h$  for a group  $G$ , I will introduce an infinite codimension Plateau problem associated with  $h$ . This comes from an invariant called the spherical volume, which was defined by Besson-Courtois-Gallot in their study of the volume entropy. I will discuss some uniqueness and existence results for Plateau solutions.

Date: April 13, 2022 (Wednesday)

Time: 11:00am – 12:00pm (Hong Kong time)

ZOOM link: <https://cuhk.zoom.us/j/91805734715>*All are Welcome*