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Joint Geometric Analysis Seminar

(Part of MIST program)

Free Boundary Minimal Surfaces in the Euclidean Three-Ball Close to Boundary

*Mr. Jiahua Zou
Brown University*

Abstract

I will talk about the new construction of genus-zero free boundary minimal surfaces embedded in the unit ball in the Euclidean three-space which are compact and lie arbitrarily close to the boundary unit sphere with an arbitrarily large number of connected boundary components. They also provided an example of the extreme cases for the area of genus-zero free boundary minimal surfaces. The talk is based on the joint work with Professors Nicolaos Kapouleas and Peter McGrath.

Date: March 24, 2023 (Friday)

Time: 9:30am-10:30am (Hong Kong time)

ZOOM link: <https://cuhk.zoom.us/j/91805734715>

All are Welcome