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Joint Geometric Analysis Seminar

(Part of MIST program)

Existence of constant mean curvature 2-spheres

Dr. Da Rong Cheng
University of Waterloo

Abstract

This talk is based on joint work with Xin Zhou (Cornell). We show that in a 3-sphere equipped with an arbitrary Riemannian metric, for almost every H there exists a branched immersed 2-sphere with constant mean curvature H. Moreover, the existence extends to all values of H when the ambient metric has positive Ricci curvature.

Date: 16 February 2022 (Wednesday)
Time: 10:00am – 11:00am (Hong Kong time)
ZOOM link: https://cuhk.zoom.us/j/91805734715

All are Welcome