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中国科学院数学与系统科学研究院
Academy of Mathematics and Systems Science
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Academy of Mathematics and Systems Science, CAS
Colloquia & Seminars

Speaker: 陈怡敏, Pusan National University

Inviter:

Title: Heintze Karcher type inequalities on capillary hypersurfaces in hyperbolic space

Language: Chinese

Time & Venue:

2023.02.20 10:00-11:00 腾讯会议ID: 867-473-938, 密码: 2023

Abstract:

In this talk, I will introduce our recent result on Heintze Karcher type inequalities for capillary hypersurfaces supported on different types of umbilical hypersurfaces in hyperbolic space. I will introduce some conformal Killing vector fields in hyperbolic space and use them to prove our result. As applications, I will introduce the Minkowski type formula we established and use them together with the Heintze-Karcher type inequality to prove the Alexandrov type theorem. In addition, I will introduce some other rigidity result for capillary hypersurfaces. This talk is based on the joint work with Prof. Juncheol Pyo.

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