Rigidity of contracting maps between manifolds

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时间： 2024年07月31日(周三)上午10:00-11:00

地点： 腾讯会议：141 488 810

摘要： In this talk, we are interested in studying maps between manifolds which are contracting in the sense of distance or area. On sphere, a result of Tsui-Wang states that area decreasing maps between spheres are necessarily homotopy trivial answering a question of Gromov affirmatively. It was asked to what extent we can extend the result to area non-increasing maps. In this talk, we will discuss related results using geometric flow. This is based on joint work with Wan and Tam.

个人简介： Man-Chun Lee is an Assistant Professor at the Chinese Univeristy of Hong Kong (CUHK). He received his PhD in mathematics from CUHK in 2018. In 2019-2021, he worked as a Boas Assistant Professor in Northwestern University and research fellow in Warwick University. He came back to Hong Kong and joined to CUHK in 2021. His research interests center around the geometric flows and geometric partial differential equation arising in complex geometry and Riemannian geometry. He has made important contribution in geometric flows in non-compact manifolds, scalar curvature and deformed Hermitian Yang-Mills equation. He received the NSFC Excellent Young Scientist Fund (Hong Kong and Macau) in 2022.