SCMS Seminar

CALABI-YAU TYPE THEOREM FOR MANIFOLDS WITH NONNEGATIVE SCALAR CURVATURE

Speaker: Jintian Zhu
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Time: Thur, Mar. 28th, 10:30 - 11: 30

Venue: Room 102, SCMS

Abstract: In this talk, we show how to generalize the Calabi-Yau theorem for manifolds with nonnegative Ricci curvature to those with nonnegative scalar curvature, under extra but natural topological assumptions. We will first review the Calabi-Yau theorem and provide an alternative proof without using the volume-comparison theorem. Then we generalize this proof to nonnegative scalar curvature manifolds by establishing certain splitting results.