

GEOMETRY OF MANIFOLDS WITH RC-POSITIVE TANGENT BUNDLES

Speaker: Xiaokui Yang

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Time: Fri, Dec. 13th, 9:30-11:30

Venue: Room 102, Shanghai Center for Mathematical Sciences

Abstract: In this presentation, we will discuss some recent progress on the geometry of compact manifolds with RC-positive tangent bundles, including an affirmative answer to a long-standing open problem of S.T. Yau on rational connectedness of compact Kahler manifolds with positive holomorphic sectional curvature, and new Liouville type theorems for holomorphic maps and harmonic maps. Several open problems related to the theory of RC-positivity will also be discussed.