Title & Abstract

Canonical Sasaki-Metrics on Five-Dimensional Seifert Circle Bundles

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Abstract: Based on the study of foliation minimal model program through the Sasaki-Ricci flow on the five-dimensional Seifert circle bundle, we have the Sasaki analogue of Castelnuovo's contraction theorem on Sasakian 5-manifolds. As a consequence, we are able to describe canonical Sasaki-metrics on a given five-dimensional Seifert circle bundle. In particular, there exists a unique singular Sasaki η-Einstein metric on the transverse canonical model of dimension five.

P-Minimal Surfaces in 3-Dimensional Pseudohermitian Manifold

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Abstract: In this talk, I will talk about p-minimal surfaces in 3-dimensional pseudohermitian manifold, which is first studied by Jih-Hsin Cheng, Jenn-Fang Hwang, Andrea Malchiodi, and Paul Yang. Examples in Heisenberg group, CR sphere, disk bundle, and 3-dimensional tori will be given.