

SCMS Seminar



STABILITY OF RIEMANNIAN MANIFOLDS WITH KILLING SPINORS

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Lecture

Time: 10:30-11:30, Tuesday, April 17, 2018

Venue: Room 2201, East Main Guanghua Tower, Handan Campus

Abstract: Einstein metrics on a compact manifold are critical points of the normalized total scalar curvature functional. So it is natural to study the behavior of the second variation of the normalized total scalar curvature functional at an Einstein metric. This is known as the linear stability problem of Einstein metrics. In this talk, we will briefly review previous works on this problem, and then I will report our work on the linear stability of some interesting Einstein metrics: Riemannian metrics admitting Killing spinors, and Einstein metrics from the circle bundle construction.