ON THE RELATIVE VOLUME OF POINCARE-EINSTEIN MANIFOLDS

Speaker: Fang Wang
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Time：**Fri, Jul. 29, 10:00-11:00**

Venue: Zoom Meeting 618 038 6257, password: SCMS

Abstract: For a Poincare-Einstein manifold, the Bishop-Gromov comparison theorem tells us that the relative volume is a non-increasing function of the geodesic radius. In this talk, I will show that the fractional Yamabe constant at the conformal infinity provides a lower bound for this function. As an application, this implies a gap phenomena and the rigidity theorem.