

# SCMS Seminar



## ISOPERIMETRY FOR ASYMPTOTICALLY FLAT 3-MANIFOLDS

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### **Lecture**

**Time:** 14:00-15:00, Tuesday, June 5, 2018

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

**Abstract:** In this talk, we will discuss the isoperimetric mass and isoperimetric surfaces on asymptotically flat 3-manifolds. We will show that for asymptotically flat Riemannian 3-manifolds with non-negative scalar curvature and positive ADM mass, each leaf of the canonical foliation is uniquely isoperimetric for the volume it encloses. This is joint work with Otis Chodosh, Michael Eichmair and Yuguang Shi.