

Student Differential Geometry Seminar

Stony Brook University

March 11, 2018

Michael Albanese : “The Gromov-Lawson construction of positive scalar curvature metrics, II.”

ABSTRACT: We will use the surgery result from last week to completely answer the following question (in dimension greater than four): when does a simply connected closed manifold admit a metric of positive scalar curvature? The answer depends on whether or not the manifold is spin, as there is an obstruction in the spin case coming from the Dirac operator.