

Speaker: **Shmuel Weinberger**

Title: **Complete Positive Scalar Curvature Metrics revisited**

Abstract

I will discuss joint work with Stanley Chang and Guoliang Yu. The object for us (as it had been for many others in the past) is to understand what indices tell us about complete non-compact manifolds without any quasi-isometry condition. As a corollary, we will show (for instance) that \mathbb{R}^3 is the only contractible 3-manifold with a complete positive scalar metric. (There are uncountably many homeomorphism types of contractible 3-manifolds as you might learn in this talk.)