ALMOST ELEMENTARY GROUPOIDS AND CLASSIFIABLE C*-ALGEBRAS

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Time: Fri, Nov. 14th, 16:00 - 17:00
Venue: Room 102, SCMS

Abstract:

This talk is based on collaborations with Xin Ma, where we introduce and study a notion of almost elementary étale groupoids (possibly non-ample), which unifies the notions of almost finiteness and pure infiniteness, and implies strict comparison of the groupoid. Our main motivations lie in the connections to the theory of C*-algebras. Most importantly, we show that an almost elementary minimal étale groupoid gives rise to a tracially Z-stable C*-algebra. On the other hand, we verify that many classifiable C*-algebras (including all of the strongly self-absorbing ones) have almost elementary étale groupoid models. We also make progress toward the conjecture that the Jiang-Su algebra Z does not arise from a transformation groupoid.