Rigidity properties for uniform Roe algebras

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Abstract

Roe type algebras are C*-algebras capable of detecting the large scale (i.e., coarse) geometry of uniformly locally finite metric spaces. In this talk, we report on some of the recent progress on the problem on determining how the algebraic structure of these C*-algebras determines the coarse geometry of the underlying metric space. This is joint work with (subsets of) Baudier, Braga, Farah, Khukhro and Willett.