Quasi-local algebras for groupoids

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Abstract

The notion of quasi-locality was originally introduced by Roe to describe operators in (uniform) Roe algebras, and it attracted more and more attention recently. In this talk, I will introduce a generalisation of quasi-locality to the theory of groupoids, based on a joint work with Baojie Jiang and Jianguo Zhang. We show that when the groupoid is étale and amenable, then the quasi-local algebra coincides with the reduced groupoid C^*-algbera. This unifies the classic case of groups and metric spaces, and also gives new results for group actions and groupoid uniform Roe algebras.