

## Étale Groupoids with polynomial growth

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If an étale groupoid is equipped with a proper length function, we can study the asymptotic behaviour of the growth of balls centered at each unit of the groupoid. As is the case for groups, such groupoids are expected to behave nicely in various ways. In the group case a lot of leverage is gained from the fact that the associated metric space is highly homogeneous. I will explain how this homogeneity breaks down for groupoids and how one can still establish properties like amenability or dynamical comparison. This is joint work in progress with Are Austad.