# UNIVERSITY OF HOUSTON DEPARTMENT OF MATHEMATICS

## **Analysis Seminar**

### Clement Dell'aiera

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#### Exhaustivity of representations at infinity of Roe algebras

1:00 pm in 646 PGH September 27, 2019

#### Abstract

iExhaustive representations were introduced by Nistor and Prudhon, motivated by characterizations of Fredholm operators and spectral theory of N-body Hamiltonians. Coarse geometry deals with the geometry at infinity of metric spaces with bounded geometry via the Roe algebra. In particular, Spakula and Willlett show how to construct a family of representations of the Roe algebra which can be thought of "the representations at infinity". We will be studying when this family is exhaustive. This is joint work with Yu Qiao.