A WEIGHT-FREE CHARACTERISATION FOR YU'S PROPERTY A

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Time: Fri, Sep. 26th, 16:00 - 17:00
Venue: Room 102, SCMS
Abstract:

The notion of Property A was introduced by G. Yu as a coarse analogue of amenability, which plays a key role to attack the coarse Baum-Connes conjecture. In his original definition, the family of Property A sets of a metric space X are allowed to taken in $X \times \mathbb{N}$. We show that the Property A sets can indeed be chosen in X itself for any discrete metric space of bounded geometry. The key idea is to use a smearing map, inspired from uniformly finite homology introduced by Block and Weinberger. This is a joint work with G. Niblo, N. Wright and J. Zhu.