

Double recurrence for actions of amenable groups

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The talk is based on the joint work with Q. Chu.

Session: 16. Ergodic Theory and Dynamical Systems

I will show how Austin's machinery of sated extensions can be used to find characteristic factors for weighted double ergodic averages over amenable groups. The consequences include a lower bound in the corresponding double recurrence theorem and a two-sided density version of Hindman's theorem in minimally almost periodic groups.