

## Higher rank lattice actions with positive entropy

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In this talk, I will discuss about smooth higher rank lattice actions on manifolds with positive entropy. From dynamical information, we can detect information on groups and manifolds. For instance, when lattices in  $SL(n, \mathbb{R})$  act on an  $n$ -dimensional manifold with positive entropy, we can see that the lattice is abstractly commensurable with  $SL(n, \mathbb{Z})$ .

This is joint work with Aaron Brown.

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