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Effective density of unipotent orbits in homogeneous spaces.

Let X be a homogeneous space, i.e. quotient of a Lie group G by a lattice in G . In this talk we will present a work in progress with Lindenstrauss, Margulis and Shah which provides an estimate on how large a piece of a unipotent orbit is needed so it comes within epsilon distance of any point in a given compact subset of X . This estimate depends on a certain diophantine property of the base point and the acting unipotent group. (Received January 31, 2016)