

**VENTOTENE INTERNATIONAL WORKSHOPS V
COUNTING PROBLEMS
VENTOTENE, 6-11 SEPTEMBER 2021**

EFFECTIVE EQUIDISTRIBUTION OF CLOSED ORBITS

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ETHZ

The theorem of Mozes–Shah concerning limit behaviour of closed orbits for unipotently generated subgroups has found numerous applications within number theory. Making this theorem effective with a good error rate is one of the central open problems in homogeneous dynamics. We will discuss the relationship between property (τ) and effective equidistribution of closed orbits for certain subgroups and an application. This is joint work with G. Margulis, A. Mohammadi, and A. Venkatesh.