















Theorem (Reznikov)

Thompson's group on the circle does not have Kazhdan's property T

Question (well known)

 $G \text{ acts on } \mathbb{R} \xrightarrow{?} G \text{ not Kazhdan } (T).$

Remark

Navas has a result for differentiable actions on S^1

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Theorem

Assume G amenable.

G has a faithful action on \mathbb{R}

 \iff every f.g. subgroup of G maps onto \mathbb{Z}

Question

Which amenable (or solvable) groups have C^{\Box} *actions on an n-manifold?* (n > 1)

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