

Higher Property T, Banach Representations and Applications

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Gromov conjectured that the L^p -cohomology of simple groups vanishes below the rank.

Farb conjectured a fixed point property for actions of lattices in such groups on CAT(0) cell complexes of dimension lower than the rank.

Both conjectures follow from a new cohomological vanishing result, which could be seen as a Banach version of higher property T.

In my talk I will survey the subject and explain the new contribution.

Based on a joint work with Saar Bader, Shaked Bader and Roman Sauer.

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Classification de Session: Morning Chair: Martin Orr