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Rigidity of Codimension One Higher Rank Actions

vendredi 3 mai 2024 14:00 (1 heure)

We classify all closed manifolds admitting a smooth locally free action by a higher rank split simple Lie group with codimension 1 orbits. Namely, if a closed manifold M admits such an action by a Lie group G as above, M is finitely and equivariantly covered by G/Gamma x S^1, for some cocompact lattice Gamma of G, where G acts by left translations on the first factor, and trivially on S^1. This result is in the spirit of the Zimmer program. We will focus on the case G = SL(3,R) for the talk.

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