ANOSOV REPRESENTATIONS OF AMALGAMS

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Abstract

Anosov representations form a stable and rich class of discrete subgroups of semisimple Lie groups that today are recognized as the correct higher rank generalization of convex cocompact subgroups of rank one Lie groups. As of now, it is an open question on whether there is a linear hyperbolic group which fails to admit Anosov representations into any semisimple Lie group. Motivated by this question, I will discuss joint work with Subhadip Dey on exhibiting new classes of Anosov representations constructed as amalgams and HNN extensions of Anosov groups.