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Von Neumann algebras and properly proximal groups

Abstract: we introduce a large class of groups which includes all hyperbolic groups, all convergence groups, all biexact groups, all lattices in semi-simple Lie groups, and is closed under direct products, and we show that compact actions of groups in this class give rise to von Neumann algebras with unique weakly compact Cartan subalgebra. This is joint work with Remi Boutonnat and Adrian Ioana.