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Projective separability and incomparable actions of free groups

In 2005 Gaboriau and Popa exhibited a family of continuum-many pairwise orbit inequivalent actions of the free group on two generators. Subsequently, building upon work of Ioana, Hjorth strengthened this to obtain continuum-many actions whose equivalence relations are pairwise incomparable under Borel reducibility. We discuss how stratification techniques allow us to find such collections of actions below projectively separable equivalence relations. This is joint work with Ben Miller.