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Countable nilpotent group actions and hyperfinite equivalence relations. Preliminary report.

An equivalence relation E on the standard Borel space X is hyperfinite if E is the increasing union of a sequence of Borel equivalence relations with finite classes. Recently Gao and Jackson used Borel marker sets to prove that the orbit equivalence relation arising from a Borel action of a countable abelian group is hyperfinite. We extend their methods to prove the analogous result for free Borel actions of countable nilpotent groups. (Received December 04, 2012)