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Title: Ergodic Subequivalence Relations Induced by a Bernoulli Action

Abstract: Let Γ be a countable group and denote by S the equivalence relation induced by the Bernoulli action $\Gamma \curvearrowright [0, 1]^\Gamma$, where $[0, 1]^\Gamma$ is endowed with the product Lebesgue measure. We prove that for any subequivalence relation R of S , there exists a partition $\{X_i\}_{i \geq 0}$ of $[0, 1]^\Gamma$ with R -invariant measurable sets such that $R|_{X_0}$ is hyperfinite and $R|_{X_i}$ is strongly ergodic (hence ergodic), for every $i \geq 1$. This is joint work with Adrian Ioana.