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Prime II_1 factors arising from actions of product groups

In this talk we show that any II_1 factor arising from a free ergodic probability measure preserving action $\Gamma \curvearrowright X$ of a product $\Gamma = \Gamma_1 \times \cdots \times \Gamma_n$ of $n \geq 1$ icc hyperbolic, free product or wreath product groups is prime, provided $\Gamma_i \curvearrowright X$ is ergodic, for any $1 \leq i \leq n$. Moreover, we prove a unique prime factorization result for any II_1 factor associated to a free ergodic probability measure preserving action of a product of icc, hyperbolic, property (T) groups.