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Clinton T. Conley* (clintonc@math.cornell.edu), **Alexander S. Kechris** and **Benjamin D. Miller**. *Stationary probability measures and σ -compact realizations for aperiodic Borel actions of countable groups.*

We discuss the generic inexistence of stationary Borel probability measures for aperiodic Borel actions of countable groups on Polish spaces. Using this, we show that every aperiodic continuous action of a countable group on a compact Polish space has an invariant Borel set on which it has no σ -compact realization. (Received December 03, 2012)