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Steve C Jackson* (jackson@unt.edu), Department of Mathematice, University of North Texas, Denton, TX 76203. *Borel chromatic number of actions of Z^n .*

We consider free actions of the countable group Z^n , and obtain results on the Borel chromatic number of the corresponding equivalence relations. We state some remaining open questions along these lines. The methods used derive from the analysis of Borel actions of countable Abelian groups. (Received August 04, 2007)