1046-03-1348   **Steve C Jackson*** (`jackson@unt.edu`), Department of Mathematice, University of North Texas, Denton, TX 76203-5017, **Su Gao** (`sgao@unt.edu`), Department of Mathematics, University of North Texas, Denton, TX 76203-5017, and **Brandon Seward**, Department f Mathematics, University of North Texas, Denton, TX 76203-5017. *A compactness theorem for markers and group colorings.* Preliminary report.

We formulate a compactness property for complete sections of Borel equivalence relations. This is a natural notion arising from hyperfiniteness proofs and related questions. The compactness property, in turn, leads to a purely algebraic question about groups. We formulate this as a coloring property of countable groups and investigate it. (Received September 15, 2008)