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**Clinton T. Conley\***, [clinton.conley@univie.ac.at](mailto:clinton.conley@univie.ac.at). *Canonizing relations on  $E_0$ -nonsmooth sets.*

We say that a Borel subset  $A$  of Cantor space is  $E_0$ -nonsmooth if the restriction of  $E_0$  to  $A$  does not admit a Borel transversal, where  $E_0$  is the equivalence relation of eventual agreement. Motivated by Galvin's theorem, we investigate whether a Baire measurable coloring of pairs in Cantor space by finitely many colors admits a homogenous  $E_0$ -nonsmooth set. Along the way, we establish a strengthening of the Kanovei-Zapletal canonization of Borel equivalence relations on Cantor space. (Received June 23, 2011)