1092-03-88 **Justin Tatch Moore***, Department of Mathematics, Malott Hall, Cornell University, Ithaca, NY 14853-4201. *Baumgartner's isomorphism problem for $\aleph_2$-dense sets of reals.*

In 1973, Baumgartner proved that it is relatively consistent with ZFC that every two $\aleph_1$-dense subsets of $\mathbb{R}$ are isomorphic. At the time, he asked whether a similar result can be obtained for $\aleph_2$-dense subsets of $\mathbb{R}$. In this talk, I will discuss some progress which has been made on this problem, indicating what is required of a model of set theory in which the continuum is at least $\aleph_2$ and all $\aleph_2$-dense sets of reals are isomorphic. (Received July 31, 2013)