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Trevor M. Wilson* (twilson@math.uci.edu), Department of Mathematics, 340 Rowland Hall, University of California, Irvine, CA 92697. *A model of set theory in which every set of reals is universally Baire.*

One way in which large cardinals influence the “small” objects of ordinary mathematics is by implying regularity properties such as Lebesgue measurability for certain simply definable sets of reals. Another closely related application of large cardinals is the construction of models in which *every* set of reals has regularity properties (but the Axiom of Choice fails.) Examples of the latter type include Solovay’s model, obtained from an inaccessible cardinal, in which every set of reals has the classical regularity properties; and Woodin’s derived model, obtained from infinitely many Woodin cardinals, in which the Axiom of Determinacy holds.

In this talk I will present joint work with Paul Larson and Grigor Sargsyan in which we establish a further result along these lines: If there is a cardinal that is a limit of Woodin cardinals and strong cardinals, then there is a proper class model of ZF in which the Axiom of Determinacy holds and every set of reals is universally Baire. (Received September 09, 2014)