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Michael P Cohen* (michael.cohen@ndsu.edu), 1861 39th St S Apt 305, Fargo, ND 58103, and
Robert R Kallman. *Groups lacking nice topologies in interval and circle dynamics.*

I'll discuss the history of an uncommon phenomenon: groups of cardinality continuum whose algebraic structure precludes the existence of a Polish (separable completely metrizable) group topology. Many of the few known examples arise among full groups of ergodic measure-preserving dynamical systems, as well as their topological analogues. I'll present joint work with Robert R. Kallman, in which we provide new examples of groups lacking Polish topologies arising in the context of the dynamics of one-dimensional manifolds. (Received February 03, 2015)