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Ethan S. Devinatz* (devinatz@math.washington.edu), Department of Mathematics,
University of Washington, Box 354350, Seattle, WA 98195. *Hopf algebroids and group actions.*

We give necessary and sufficient conditions for certain complete Hopf algebroids to arise from the action of a profinite group on a ring. This gives a short proof of part of Morava theory and is related to our project of understanding $H_c^*(G, E_{n*})$ using Hopf algebroid techniques, where G is a closed subgroup of the n th extended Morava stabilizer group. (Received September 15, 2005)