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James Belk and **Bradley Forrest*** (bradley.forrest@stockton.edu), Mathematics Program,
P.O. Box 195, Jimmie Leeds Road, Pomona, NJ 08240. *P-adic and Universal Hyperbolic
Solenoids.*

A solenoid is an inverse limit of connected Hausdorff spaces and covering maps indexed over a directed set. In this talk, I will investigate the algebraic topology of two well known solenoids, the P -adic solenoid and the universal hyperbolic solenoid. I will discuss joint work with James Belk, which generalizes a theorem of Odden on the universal hyperbolic solenoid. Specifically, I will present an isomorphism between the group of basepoint preserving homotopy self equivalences of a solenoid and the automorphism group of the fundamental pro-group of the solenoid. (Received June 28, 2011)