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Chris Hurlburt* (hurlburt@math.niu.edu), Department of Mathematical Sciences, Northern Illinois University, DeKalb, IL 60115. *Applications of p -derivations to Arithmetic Algebraic Geometry*. Preliminary report.

The field of differential algebraic geometry results from the expansion of classical algebraic geometry to include algebraic differential equations and arithmetic analogs of algebraic differential equations. In my talk I will be discussing the case of arithmetic analogs of algebraic differential equations and their applications to arithmetic algebraic geometry. (Received October 03, 2000)