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Thomas Warren Scanlon* (scanlon@math.berkeley.edu), UC Berkeley, Department of Mathematics, Evans Hall, Berkeley, CA 94720-3840. *Model theory of fields with operators and dynamics.*

We have known for some time that questions in algebraic dynamics may be expressed in terms of difference algebra and then solved using the model theory of difference fields. I shall discuss an alternate approach whereby some instances of the dynamical Mordell-Lang problem may be addressed by the model theory of Hasse differential fields. (Received September 22, 2010)