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Thomas Scanlon* (scanlon@math.berkeley.edu), University of California, Berkeley,
Department of Mathematics, Berkeley, CA 94720-3840. *Infinitesimal differential Galois groups
from jet spaces.*

In joint work with Rahim Moosa, I developed a theory of jet spaces of generalized Hasse differential varieties. In this talk, I will explain how these jet spaces give a precise sense to higher order linearization of general systems of difference/differential equations and how one may thereby associate infinitesimal Galois groups to such systems. (Received September 17, 2009)