

1124-49-140

Peter J Olver* (olver@umn.edu), School of Mathematics, University of Minnesota, Minneapolis, MN 55455. *Invariant variational problems and invariant flows.*

I will discuss the moving frame approach to the analysis of invariant variational problems and the evolution of differential invariants under invariant submanifold flows. Applications will include variational principles and flows arising in geometry, mechanics, image processing, and integrable systems. (Received September 05, 2016)