1048-58-57 **Peter J Olver\*** (`olver@math.umn.edu`), School of Mathematics, University of Minnesota, Minneapolis, MN 55455. *Moving frames, variational problems, and geometric flows.*

I will discuss applications of the equivariant method of moving frames to the analysis of invariant variational problem and the evolution of differential invariants under invariant geometric flows. (Received January 18, 2009)