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**Peter Constantin\***, Department of Mathematics, Princeton University, Fine Hall, Washington Road, Princeton, NJ 08544. *Lagrangian-Eulerian methods for uniqueness in hydrodynamic systems.*

We present a Lagrangian-Eulerian strategy for proving uniqueness and local existence of solutions of limited smoothness for a class of incompressible hydrodynamic models including generalized Oldroyd-B complex fluid models and zero magnetic resistivity magneto-hydrodynamic systems. (Received September 09, 2014)