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Gerard Misiolek*, Dept. of Mathematics, University of Notre Dame, IN. *Regularity of the data-to-solution map for the Euler equations.*

I will describe the data-to-solution map for incompressible Euler equations in Lagrangian and Eulerian coordinates and show that with respect to Sobolev topologies it is smooth in the former but in general not even uniformly continuous in the latter case. (Received December 09, 2009)