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**Marcelo M Disconzi\*** ([marcelo.disconzi@vanderbilt.edu](mailto:marcelo.disconzi@vanderbilt.edu)), 1326 Stevenson Center,  
Vanderbilt University, Nashville, TN 37240. *The Einstein-Navier-Stokes system.*

We study the evolution problem for Einstein's equations coupled to a relativistic version of the Navier-Stokes equations introduced by Lichnerowicz. Assuming that the fluid is irrotational, we establish local well-posedness of the Cauchy problem and causality of solutions. (Received December 18, 2015)