

1109-35-220

**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 consider Lichnerowicz's formulation of the relativistic Navier-Stokes equations coupled to Einstein's equations. We show that the system is well-posed and has a well-defined speed of propagation of disturbances that is at most the speed of light. Implications for a formulation of a relativistic theory of viscous fluids are discussed. (Received February 02, 2015)