

1107-76-284

**Alexandru D. Ionescu\*** ([aionescu@math.princeton.edu](mailto:aionescu@math.princeton.edu)), Dept. of Mathematics, Fine Hall,  
Washington Rd., Princeton, NJ 08540. *On the existence of global solutions of certain fluid models  
in low dimensions.*

I will discuss some recent work (joint with Y. Deng, F. Pusateri, and B. Pausader) on global existence of smooth solutions of certain water wave models and plasma models in 2 and 3 dimensions. (Received January 17, 2015)