1077-35-582   **Tao Luo*** (`tl48@Georgetown.edu`). *On the transonic shocks of Euler-Poisson equations.*

In this talk, I will present some results on the existence of unique and multiple transonic shock solutions and their stability for a system of Euler-Poisson equations. This is a joint work with Rauch, Xie and Xin. (Received September 07, 2011)