Robert M. Strain and Tak Kwong Wong* (takwong@math.upenn.edu). Axisymmetric flow of ideal fluid moving in a narrow domain: a study of the axisymmetric hydrostatic Euler equations.

In this talk, we will introduce a new model to describe the leading order behavior of an ideal and axisymmetric fluid moving in a very narrow domain. Under a new sign condition, the formal derivation and mathematical analysis of this model will be discussed. (Received September 21, 2015)