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Vu Hoang* (vu.hoang@rice.edu), 6100 Main Street, Houston, TX 77001. *Blowup for model equations of fluid mechanics.*

In this talk, I consider the 2D inviscid Boussinesq equations in vorticity form. It remains a challenge to decide if finite time blowup happens for smooth initial data or not. I introduce a model problem for the Boussinesq equations associated to the hyperbolic flow scenario for which we can show finite-time blowup (joint work with B. Orcan, M. Radosz, H. Yang). (Received February 21, 2017)