1131-35-108 **Jiahong Wu*** (jiahong.wu@okstate.edu), Department of Mathematics, 401 Mathematical Sciences, Oklahoma State University, Stillwater, OK 74078. *Stability results for the 2D Boussinesq* equations with partial dissipation.

This talk presents three main results: first, the linear stability of the shear flow for the 2D incompressible Boussinesq equations with vertical dissipation (joint work with Lizheng Tao); second, the linear stability of a temperature equilibrium for the 2D Boussinesq equations with only velocity dissipation (joint work with Charles Doering, Kun Zhao and Xiaoming Zheng); and third, the linear stability of the 2D Boussinesq equations with only velocity dissipation swith only velocity dissipation (joint work with charles Doering, Kun Zhao and Xiaoming Zheng); and third, the linear stability of the 2D Boussinesq equations with only velocity dissipation near the shear flow and a temperature equilibrium. (Received July 07, 2017)