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Tarek M Elgindi*, 9500 Gilman Drive, La Jolla, CA 92023, and **In-Jee Jeong**. *Singularity formation in incompressible fluids.*

We will discuss some recent results on singularity formation for finite-energy strong solutions to the 2D Boussinesq and 3D Euler systems based on the analysis of scale-invariant solutions. The work consists of three parts: local well-posedness in critical spaces, the analysis of scale-invariant solutions (which belong to those spaces), and then a cut-off argument to ensure finite energy. This is a joint work with I. Jeong. (Received September 26, 2017)