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Emil Wiedemann* (emil@math.ubc.ca). *Non-uniqueness and boundary effects for the incompressible Euler equations.*

In their recent ground-breaking work, C. De Lellis and L. Székelyhidi showed that the Cauchy problem for the incompressible Euler equations is ill-posed in the framework of weak solutions, even when various further assumptions on the energy are made. I will present some new results in this direction, including the construction of non-dissipative energy solutions in bounded domains, and conceivable selection criteria for weak solutions. (Received September 13, 2013)