

1125-35-2142

Gui-Qiang Chen, Mikhail Feldman* (feldman@math.wisc.edu) and **Wei Xiang**. *Uniqueness for shock reflection problem.*

We discuss shock reflection problem for compressible gas dynamics, von Neumann conjectures on transition between regular and Mach reflections, and existence of regular reflection solutions for potential flow equation. Then we will talk about recent results on uniqueness of regular reflection solutions for potential flow equation, in a natural class of self-similar solutions. (Received September 19, 2016)