

Shock Reflection-Diffraction, Transonic Flow, and Free Boundary Problems (II)

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Abstract:

In this talk we will discuss some recent results and their proofs, joint with Gui-Qiang Chen, on the existence, stability, and regularity of global solutions of shock reflection-diffraction by wedges for potential flow. The approach includes techniques to handle free boundary problems for mixed-type equations, and regularity of degenerate elliptic equations.