

SHOCK FORMATION FOR THE BURGERS–HILBERT EQUATION

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We will talk about the shock formation for the Burgers–Hilbert (BH) equation. We begin with previous studies on BH equation, including the vorticity discontinuity model, initial value problems and blowup results. Then we introduce the technique of modulated self-similarity, show its background and apply it to the BH equation. Finally we sketch the proof and discuss its difficulty.