ID de Contribution: 18

Type: Non spécifié

Reversal in the Stationary Prandtl Equations

jeudi 25 mai 2023 15:45 (1 heure)

We investigate reversal and recirculation for the stationary Prandtl equations. Reversal describes the solution after the Goldstein singularity, and is characterized by regions in which u > 0 and u < 0 respectively. The classical point of view of regarding the stationary Prandtl system as an evolution equation in x completely breaks down since u changes sign.

Instead, we view the problem as a quasilinear, mixed-type, free-boundary problem. This is a joint work with Sameer Iyer.

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