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Reversal in the Stationary Prandtl Equations

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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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