# **Boğaziçi Math Seminar**

# **Reversal in the Stationary Prandtl Equations**

### **Nader Masmoudi**

## Courant Institute of Mathematical Sciences New York University

#### Abstract:

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. The classical point of view of regarding the Prandtl equations 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. Joint work with Sameer Iyer.

Date : Wednesday, July 3, 2024 Time: 10:00 Place: TB 130, Boğaziçi University