Searching for Euler Singularities Through Vortex Filaments
MICHAEL BRENNER, School of Engineering and Applied Sciences, Harvard University — Numerical simulations over the past decade have suggested that if a singularity of the Euler equation exists, it is likely to be unstable. The question therefore becomes how to devise schemes for searching for unstable singular solutions of the initial value problem. I will summarize our recent efforts to carry out such searches using interacting vortex filaments.

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