

Abstract Submitted
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3D Euler in a 2D Symmetry Plane¹ ROBERT M. KERR, MIGUEL BUSTAMANTE, University of Warwick — Initial results from new calculations of interacting anti-parallel Euler vortices are presented. The objective is to understand the origins of singular scaling presented by Kerr (1993) for anti-parallel vortices with different core profiles. It is found that having nearly no negative vorticity in the upper half plane is essential, that analysis of enstrophy/its production is the most robust way to get initial trends, and that depletion of circulation in the symmetry plane is the best indication of when a calculation should be terminated due to lack of resolution.

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Robert M. Kerr
University of Warwick

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