3D Euler in a 2D Symmetry Plane\textsuperscript{1} 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.

\textsuperscript{1}Acknowledge support of the Leverhulme Foundation

Robert M. Kerr  
University of Warwick

Date submitted: 01 Aug 2007  
Electronic form version 1.4