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Persistence of vorticity concentration in the two-point vortex system of the 2D Euler equations

In this talk, I will investigate the vortex confinement property of solutions to the 2D Euler equations, specifically focusing on the stability around the critical point. For the two-point vortex system, I will analyze the duration over which vorticity concentration is sustained and show that, regardless of the vorticity strength, this concentration persists indefinitely. This is a joint work with R. Qin and S. Shen.