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Aula petita del CRM.

Boundary regularity of rotating vortex patches.

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ABSTRACT:

We show that the boundary of a rotating vortex patch (or V -state, in the terminology of Deem and Zaabuski) is C^∞ provided the patch is close to the bifurcation circle in the Lipschitz norm. Our proof is based on Burbea's approach to V -states.