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The motion of two vortices in a simply connected domain

The motion of point vortices provides a finite dimensional approximation for the behavior of the incompressible, inviscid fluid. In this talk, after recalling how the dynamics of point vortices in a simply connected domain can be derived using conformal mapping techniques, we present some qualitative results concerning the dynamics of a system of two vortices in such domains. This work is part of an ongoing collaboration with J. Féjoz and M. Giralt.