

## **Asymptotic behavior of 2D incompressible ideal flow around small disks**

Helena Nussenzveig Lopes, Federal University of Rio de Janeiro

In this talk we will discuss the asymptotic behavior of solutions to the incompressible 2D Euler equations in the exterior of a family of disjoint disks with small radii. Our main result is that, as the radii become vanishingly small, the limit flow retains information on the circulations around the disks as time-independent coefficients. We contrast our work with recent work by C. Lacave and co-authors.

This talk is based on joint work with C. Lacave and M.C. Lopes Filho