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Vortices for the 2D Euler equation

In this talk we present an asymptotic expansion of solutions for the 2D Euler equation with highly concentrated vorticity around a finite number of points. Compared to previous results we obtain a finer description of the solution. We do this by exploiting a connection with the Liouville equation. This is joint work with Manuel del Pino (Universidad de Chile), Monica Musso (Universidad Catolica de Chile) and Juncheng Wei (University of British Columbia).