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Variational approach to touching dipoles

Thursday, 15 January 2026 11:30 (30 minutes)

In this talk, I will discuss touching dipoles (Sadovskii vortices) in the 2D Euler flows, which are traveling wave solutions whose vorticity support remains in contact with a symmetry axis.

I will explain how a family of touching dipoles arises as maximizers of the kinetic energy under natural constraints. This family includes classical examples such as the Chaplygin-Lamb dipole and Sadovskii vortex patch as particular cases.

Presenter: WOO, Kwan