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Regularity and Analyticity for the dissipative Quasi-geostrophic equations and the Navier-Stokes equations

ABSTRACT:

This talk is devoted to higher order regularity and analyticity rate estimate for the sub-critical dissipative quasi-geostrophic equations and the Navier-Stokes equations with possible fractional diffusion. It is based on joint work with D. Du and recent joint work with D. Li.