

# 学术报告

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**报告题目：** Some recent results on regularization by transport noise for fluid dynamical models

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**报告摘要：** According to heuristic arguments and some recent rigorous studies, transport noise is a physically well motivated random perturbation to fluid dynamical equations. In this talk we introduce several results on regularizing effects of transport noise, including suppression of blow-up for the vorticity form of 3D Navier-Stokes equations and asymptotic weak uniqueness for stochastic 2D Euler equation. We also mention regularizing effects of transport-type noise to other models such as the inviscid Leray-alpha model and the dyadic model for turbulence.