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Non-uniqueness in law for two-dimensional Navier-Stokes equations with diffusion weaker than a full Laplacian. Preliminary report.

We discuss non-uniqueness in law for L2-norm supercritical Navier-Stokes equations forced by random noise (additive or linear multiplicative). The proof requires a probabilistic analogue of convex integration technique, and results are for dimensions two and three. (Received January 03, 2021)