



Workshop on Stochastic Analysis

IMECC - Unicamp

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On local well-posedness of the stochastic incompressible density-dependent Euler equations

Abstract

We study the stochastic inhomogeneous incompressible Euler equations in the whole space ³. We prove the existence and pathwise uniqueness of local solutions with both additive and multiplicative stochastic noise. Our approach is based on reducing our problem to a random problem and some estimations for type transport equations.