


复旦大学数学科学学院
数学综合报告会

报告题目：On ill- and well-posedness of dissipative martingale solutions to stochastic 3d euler equations

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时间：2020-10-20 星期二 10:00-11:00

地点：腾讯会议 ID: 171 860 865

报告摘要：

We are concerned with the question of well-posedness of stochastic three dimensional incompressible Euler equations. In particular, we introduce a novel class of dissipative solutions and show that (i) existence; (ii) weak–strong uniqueness; (iii) non-uniqueness in law; (iv) existence of a strong Markov solution; (v) non-uniqueness of strong Markov solutions; all hold true within this class. Moreover, as a byproduct of (iii) we obtain existence and non-uniqueness of proba-bilistically strong and analytically weak solutions defined up to a stopping time and satisfying an energy inequality.

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