

中国科学院

随机复杂结构与数据科学重点实验室

学术报告

题目: Global well-posedness and backward uniqueness of stochastic 3D Burgers equation in $L^2(T^3; R^3)$

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摘要: Global well-posedness for 3D deterministic Burgers equation with $L^2(T^3; R^3)$ valued initial data is unknown. Here, by a suitable randomization for the initial data, we solve the problem for stochastic 3D Burgers equation. Furthermore, we establish the backward uniqueness for the stochastic 3D Burgers equation, which is also new for the deterministic case.