



北京理工大学

数学与统计学院学术报告

Probabilistic well-posedness and Gibbs measure evolution for the non linear Schrodinger equation on the two dimensional sphere

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时间: 2025. 6. 11 下午2:00--3:00

地点: 文萃楼F 403

摘要: In this talk I will present some recent work about the cubic nonlinear Schrödinger equation (NLS) with random initial data. Namely I will show how taking such random initial data can allow to beat the deterministic regularity threshold we established with P. Gérard and N. Tzvetkov in the 2000'. I will present first the state of the art and then will explain the ideas involved to go all the way up to the Gibbs' measure regularity threshold (essentially L^2) and take benefit from this to exhibit global solutions at this level of regularity. This is a joint work with N. Camps, C. Sun and N. Tzvetkov.

报告人简介: Nicolas Burq教授是法国著名数学家，在多项领域取得很多重要成果；在 JAMS, Invent. Math., Acta Mathématique, Duke, SIAM Rev., GAFA等权威国际期刊上发表学术文章70余篇，谷歌学术引用 8000 余次。