



复旦大学数学科学学院 数学综合报告会

报告题目: Global solutions to 3D quadratic nonlinear
Schrödinger-type equation

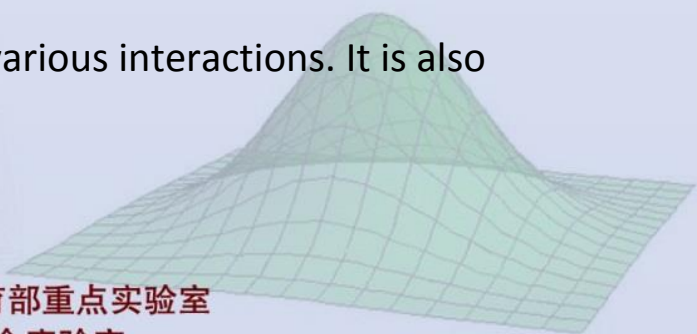
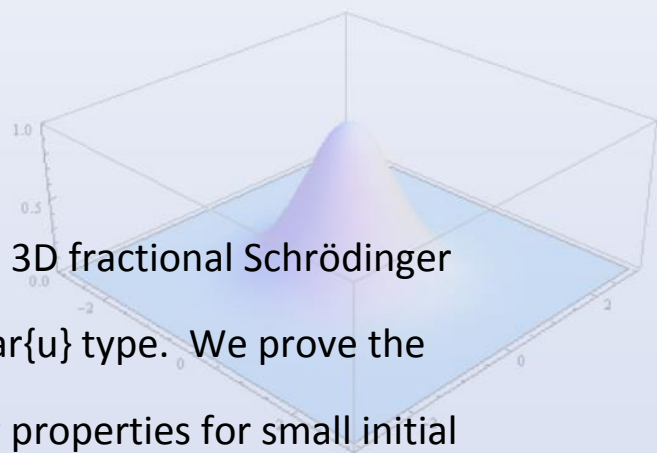
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时间: 2025-11-06 星期四 14:30-15:30

地点: 腾讯会议: 900-630-246

报告摘要:

We consider the Cauchy problem to the 3D fractional Schrödinger equation with quadratic interaction of $u\bar{u}$ type. We prove the global existence of solutions and scattering properties for small initial data. For the proof, one novelty is that we combine the normal form methods and the space-time resonance methods. Using the normal form transform enables us to have more flexibility in designing the resolution spaces so that we can control various interactions. It is also convenient for the final data problem



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