

学术报告

报告题目: Recent results on multi-bubble blow-ups and multi-solitons to stochastic nonlinear Schrödinger equations

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报告摘要: In this talk we review some recent results on the multi-bubble blow-ups and multi-solitons to the focusing stochastic nonlinear Schrödinger equations. We will show the corresponding construction and conditional uniqueness results, which provide new examples for the mass quantization conjecture and the soliton resolution conjecture. Furthermore, in the very low asymptotic regime, the refined uniqueness is obtained in the deterministic case. If time permits, we will also show the direct construction of stochastic multi-solitons in both the mass critical and subcritical cases, particularly, in the absence of the classical pseudo-conformal symmetry.