

東工大数理解析セミナー

2019年7月22日(月) 16:00 -- 18:50 本館2階 213 セミナー室

17:00 -- 17:50

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Probabilistic well-posedness of the mass-critical NLS with radial data below $L^2(\mathbb{R}^d)$

In this talk, we consider the Cauchy problem of the mass-critical nonlinear Schrödinger equation (NLS) with radial data below $L^2(\mathbb{R}^d)$. We prove almost sure local well-posedness along with small data global existence and scattering. Furthermore, we also derive conditional almost sure global well-posedness of the defocusing NLS under the assumption of a probabilistic a priori energy bound. The main ingredient is to establish the probabilistic radial Strichartz estimates.