

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

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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.