

Seminar 2022

Math

Weighted Strichartz estimates and their applications to INLS

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Abstract: Strichartz estimate is known as one of the fundamental tools to study the nonlinear dispersive PDEs and has been fruitfully used to prove their well-posedness problem. In this talk, we review the classical Strichartz estimates for the Schrödinger equation. We then discuss the weighted Strichartz estimates introduced in our recent work with a spatial power weight $|x|^{-\alpha}$, $\alpha > 0$. As an application, we give some well-posedness results for the inhomogeneous nonlinear Schrödinger equation (INLS) in the critical case which was left unsolved until recently.



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