

MAXIMAL ESTIMATES OF GENERALIZED SCHRÖDINGER EQUATION

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We consider the pointwise convergence of the solution to the generalized Schrödinger equation. Recently, Du, Guth and Li [1] and Du and Zhang [2] obtained optimal estimates of the convergence for Schrödinger equation in two dimension and in higher dimensions, respectively. We generalize the results to the operators with more general phases, which gives the convergence for generalized Schrödinger equation. This is joint work with Hyerim Ko.(SNU)

REFERENCES

- [1] X. Du, L. Guth and X. Li, *A sharp Schrödinger maximal estimate in \mathbb{R}^2* , Annals of Math., **186** (2017), 607–640.
- [2] X.Du, R. Zhang, *Sharp L^2 estimate of Schrödinger maximal function in higher dimensions*, preprint (2018), arXiv:1805.02775.