Boğaziçi Math Seminar

Strichartz estimates for the nonelliptic nonlinear Schrödinger equations on semi-periodic domain

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Abstract:

In this talk, we consider the hyperbolic nonlinear Schrödinger equations (HNLS) on $\mathbb{R} \times \mathbb{T}$. The main objective will be to establish local/global Strichartz estimates. These type of estimates serve as the foundation for proving local and global well-posedness in the theory of analysis of PDEs. We also refer how the solutions of hyperbolic Schrödinger equation is related analytically to the Boltzmann equation.

Date : Monday, July 7, 2025
Time: 9:45
Place: TB 130, Boğaziçi University