



Donnerstag, den 26. November 2026, um 14:30 Uhr, im Hörsaal 2

Prof. Dr. Sebastian Herr*

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Point-line Incidences and the nonlinear Schrödinger equation

Zusammenfassung/Abstract:

First, I will review the classical Szemerédi-Trotter theorem, which provides an upper bound for the number of point-line incidences in the plane. Second, I will discuss Bourgain's proof of the Strichartz estimate for the Schrödinger equation, which relies on elementary analytic number theory and Fourier analysis. Then, I will present a connection between these two topics, which leads to a sharp estimate and a global result for the cubic nonlinear Schrödinger equation.

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