

Im

Oberseminar Analysis

hält Herr

Dr. Leonid Chaichenets

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einen Vortrag zum Thema

On the global wellposedness of the Klein-Gordon equation for initial data in modulation spaces

Abstract: We prove global wellposedness of the Klein-Gordon equation with power nonlinearity $|u|^{\alpha-1}u$, where $\alpha \in \left[1, 1 + \frac{2}{d-2}\right]$, in dimension $d \geq 3$ with initial data in $M_{p,p'}^1(\mathbb{R}^d) \times M_{p,p'}(\mathbb{R}^d)$ for p sufficiently close to 2 . The proof is an application of the high-low method described by Bourgain in "Global Solutions of Nonlinear Schrödinger Equations", where the Klein-Gordon equation is studied in one dimension with cubic nonlinearity for initial data in Sobolev spaces.

Datum: **Donnerstag, 21. November 2019**

Zeit: **15:15 Uhr**

Raum: **WIL C 129**

Ansprechpartner: Prof. R. Chill

Alle Interessenten sind herzlich eingeladen.