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SEMINARVORTRAG

Das Institut für Mathematik lädt zu folgendem Vortrag im Rahmen des Forschungsseminars: Numerische Mathematik – aktuelle Forschung ein:

Katharina Schratz

Fakultät für Mathematik, Karlsruhe Institute of Technology

über

Trigonometric time integrators for the Zakharov system

The main challenge in constructing any numerical scheme for the Zakharov system (a scalar model for Langmuir oscillations in a plasma) originates from the presence of derivatives in the nonlinearity. In this talk we present how the ideas in [1] firstly allow us to derive trigonometric time integrators for the Zakharov system with error bounds uniformly in the spatial discretization parameter, i.e., without imposing any CFL-type condition.

This is a joint work with Sebastian Herr (University of Bielefeld).

[1] T. Ozawa and Y. Tsutsumi. Existence and smoothing effect of solutions for the Zakharov equations. Publ. Res. Inst. Math. Sci., 28(3):329-361, 1992.

Zeit: **Dienstag, den 03. November 2015 um 10:15 Uhr**

Ort: **Bauing.-Gebäude, Technikerstraße 13/2. OG, Seminarraum 219**

Gäste sind herzlich willkommen!

Alexander Ostermann