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FAKULTÄT FÜR MATHEMATIK
Dekan Univ.-Prof. Dr. Christian Krattenthaler

Einladung zur öffentlichen Defensio von

LUONG Hung

Thema der Dissertation:

**(In)stability and asymptotic analysis of the
Zakharov-Rubenchik system and related wave type
equations**

Abstract:

In this thesis, we address various mathematical problems concerning the Cauchy problem for various two-dimensional nonlinear dispersive equations and their perturbations by a line soliton, related to the problem of transverse stability for these models. We consider these models as the asymptotic models of the very general ‘water wave equation system’ like the Zakharov-Rubenchik system. This leads to many interesting questions on the long time existence of solution (with respect to some small parameters).

Prüfungssenat:

Univ.-Prof. Dipl.-Ing. Dr. Gerald Teschl (Vorsitz)
(Universität Wien)

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(UMPC Paris)

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Prof. Dr. Edriss Titi
(Texas AM University)

Zeit: Donnerstag, 13. September 2018, 16:00 Uhr

Ort: Fakultät für Mathematik, WPI Seminarraum 08.135, Oskar-Morgenstern-Platz 1