



Spectral Theory and Dynamics of Quantum Systems

GRADUIERTENKOLLEG 1838

Stuttgart-Tübinger Doktorandenseminar

27. Januar 2014

Institut für Analysis, Dynamik und Modellierung
Pfaffenwaldring 57, 70569 Stuttgart-Vaihingen
Seminarraum 8.122

Programm

14.00 – 14.25	Ulrich Linden: Störungen vom Rang Eins und Delta-Potentiale
14.30 – 14.55	Johannes von Keler: Mean-Field Limes und Dimensionsreduktion
15.00 – 15.25	Steffen Gilg: Lattice approximations for the Gross-Pitaevskii equation with a periodic potential
15.30 – 16.00	Bernd Brumm: A fast matrix-free algorithm for spectral approximations to the Schrödinger equation

Kaffeepause

16.30	Mathematisches Kolloquium
ab 18.00	Nachsitzung

Mathematisches Kolloquium:

On a Generalization of Herbst's Generalized Hardy Inequality
Prof. Dr. Heinz Siedentop (LMU, München)

Abstract: We will investigate under which conditions

$$|p|^a |q|^b + |q|^b |p|^a$$

is positive. Here p is the momentum operator, q the position operator.
