Oberseminar
Analysis und Theoretische Physik

Prof. Dr. Henrik Kalisch
University of Bergen

"Dispersive PDE in Spaces of Analytic Functions: Theory and Applications"

Abstract:
We review some results for proving existence of solutions for nonlinear dispersive evolution equations in spaces of low regularity. We then show how to apply similar methods to proving results about spatial analyticity of solutions, and to estimate the radius of analyticity as a function of time. These estimates have natural applications in the theory of spectral methods for the numerical treatment of the evolutions equations. Time permitting, we will present an application to the study of undular river bores.

Dienstag, 31.05.2011, 15:15 Uhr, Raum g005
Hauptgebäude der Universität

Über Ihren Besuch würden sich freuen:

Prof. Dr. Joachim Escher
Prof. Dr. Bernhard Krötz
Prof. Dr. Olaf Lechtenfeld
Prof. Dr. Elmar Schrohe
Prof. Dr. Christoph Walker