BERGISCHE UNIVERSITÄT
WUPPERTAL
Gaußstraße 20
42119 Wuppertal

Fachbereich C, Mathematik und Naturwissenschaften

Prof. Dr. Nikolay Shcherbina

Telefon: (0202) 439-3041
Raum: G.15.19

Im Rahmen der

AG Komplexe Analysis

laden wir ein zu folgendem Vortrag:

Riemann surfaces in Stein manifolds with density property

(Rafael Benedikt Andrist, University of Bern)

am **Freitag, den 01.07.2011, um 14 Uhr in Raum**.

Abstract: I will first give an introduction to Stein manifolds with density property and to Andersén–Lempert theory. These manifolds have a rich group of holomorphic automorphisms which gives some flexibility for geometric constructions.

It is well known that open Riemann surfaces admit a proper holomorphic immersion into $\mathbb{C}^2$ and a proper holomorphic embedding into $\mathbb{C}^3$. This result is generalized for proper holomorphic immersions (resp. embeddings) into Stein manifolds with density property of dimension 2 (resp. 3). The proof combines Andersén–Lempert theory with glueing techniques of Forstnerič in a Morse theoretic framework.

In the end I would like to give some applications and discuss related open questions.

Alle Interessenten sind herzlich eingeladen!

gez. Prof. N. Shcherbina