

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 zu folgendem Vortrag ein:

### Flexibility properties in Complex Analysis and Affine Algebraic Geometry

(Prof. Frank Kutzschebauch, Universität Bern, Schweiz)

am **Donnerstag, den 29.11.2012, um 16 Uhr c.t. in Raum G.14.34.**

**Abstract:** Since the 1980's Stein manifolds and affine algebraic manifolds with big automorphism groups have been studied a lot by different authors. The main themes are:

1. Andersén–Lempert theory / density property
2. flexibility
3. Oka–Forstnerič manifolds / the homotopy principle in Complex Analysis.

The first two themes have algebraic analogs and they are special cases of the third theme: Manifolds with density property and flexible manifolds are examples of Oka–Forstnerič manifolds.

In the talk we will give the relevant definitions, explain the main features of each of the three themes, explain known implications between the properties and sketch if time permits the main ideas of a nice application: “The Holomorphic Linearization Problem”.

Alle Interessenten sind herzlich eingeladen!

gez. Prof. N. Shcherbina