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:

Exposing points on the boundary of a strictly pseudoconvex domain

(Prof. Erlend Fornæss Wold, Universitetet i Oslo)

am **Dienstag, den 28.01.2014, um 16 Uhr c.t. in Raum G.15.25** .

Abstract: It is classical that if Ω is a strictly pseudoconvex domain in $\mathbb{C}^n$, then Ω is locally biholomorphic to a strictly convex domain in $\mathbb{C}^n$. We will prove a recent global version of this result (assuming Ω is bounded): if $p \in b\Omega$ is any point, there exists a holomorphic embedding $f \colon \overline{\Omega} \to \mathbb{C}^n$ such that $f(p)$ is a strictly convex boundary point for $f(\Omega)$, and $f(p)$ globally exposed, meaning that the tangent hyperplane for $f(b\Omega)$ at $f(p)$ intersects $f(\overline{\Omega})$ only at $f(p)$. If in addition $\overline{\Omega}$ is polynomially convex, then f may be taken to be a holomorphic automorphism of $\mathbb{C}^n$.

Alle Interessenten sind herzlich eingeladen!

gez. Prof. N. Shcherbina