

BERGISCHE UNIVERSITÄT
WUPPERTAL
Gaußstraße 20
42119 Wuppertal



*Fakultät 4, 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:

About the adjunction formula for singular complex spaces

(Martin Sera, Göteborg)

am **Dienstag, den 26.02.2019, um 14 Uhr c.t. in Raum G.15.25.**

Abstract: Crucial information about the geometry of a complex manifold is described by its canonical line bundle. As a central tool, we can use the adjunction formula to compute the canonical bundles of submanifolds. On complex spaces, the concept of canonical bundle generalizes to at least two different notions – Grothendieck’s dualizing sheaf ω_X and the Grauert-Riemenschneider canonical sheaf \mathcal{K}_X . While there is an adjunction formula for ω_X , the computations of \mathcal{K}_X are more evolved. For a singular hypersurfaces X in a manifold, J. Ruppenthal, H. Samuelsson Kalm & E. Wulcan present an adjunction formula for \mathcal{K}_X and give a formula determining the correlation between ω_X and \mathcal{K}_X . We would like to discuss generalizations of these results to subspaces of higher codimension. This reports on an ongoing project in collaboration with J. Ruppenthal & H. Samuelsson Kalm.

Alle Interessenten sind herzlich eingeladen!

gez. Prof. N. Shcherbina