BERGISCHE UNIVERSITÄT
WUPPERTAL
Gaußstraße 20
42119 Wuppertal

Fakultät für 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:

Semi-classical spectral asymptotics of Toeplitz operators on CR manifolds

Professor Chin-Yu Hsiao, Academia Sinica (Taipei)

am **Donnerstag, den 24.11.2022, um 16 Uhr c.t. in G.15.25**.

Abstract: Let X be a compact strongly pseudoconvex CR manifold and let T_P be the Toeplitz operator on X, where P is a first order pseudodifferential operator. We consider $\chi_k(T_P)$ the functional calculus of T_P by a rescaled cut-off function χ. In this work, we show that $\chi_k(T_P)$ admits a full asymptotic expansion in k. As applications, we obtain several CR analogous of theorems concerning high power of line bundles in complex geometry but without any group action assumptions on the CR manifold. This is a joint work with Hendrik Herrmann, George Marinescu and Wei-Chuan Shen.

Alle Interessenten sind herzlich eingeladen!

gez. Prof. N. Shcherbina