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Im Rahmen der

AG Komplexe Analysis

laden wir zu folgendem Vortrag ein:

A smoothness criterion for complex spaces in terms of differential forms

(Dr. Martin L. Sera, Chalmers University, Gothenburg)

am **Dienstag, den 12.10.2017, um 12:00 Uhr (s.t.) in Raum G.15.25**.

Abstract: On a reduced complex space X, weakly holomorphic 1-forms are holomorphic forms on the regular part X_{reg} that extend holomorphically across the exceptional set of a resolution of singularities of X.

In a joint work with H. Samuelsson Kalm, we show that if the sheaf of germs of weakly holomorphic 1-forms on X is locally free, then X is smooth.

After a short introduction in holomorphic differential forms on complex spaces, we would like to present a proof of this observation. Furthermore, we will connect the observation with the Zariski-Lipman conjecture which claims that a complex space with locally free tangent sheaf is smooth.

Alle Interessenten sind herzlich eingeladen!

gez. Prof. N. Shcherbina