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Im Rahmen der

AG Komplexe Analysis

laden wir zu folgendem Vortrag ein:

Pluripotential compactification of complex manifolds
(Prof. Evgeny Poletsky, Syracuse University, USA)

am **Dienstag, den 10.07.2018, um 16 Uhr c.t. in G.15.25**.

Abstract: We will show that every complex manifold M has an admissible volume form V. Such forms have the following properties: firstly, the space $PSH_-(M)$ of negative plurisubharmonic function on M lies in $L^1(M, V)$. Secondly, different admissible functions generate equivalent norms on $PSH_-(M)$ and, thirdly, the set of functions in $L^1(M, V)$ with the unit norm is compact.

Let M be a pluri-Greenian manifold, i.e., for each $w_0 \in M$ the pluricomplex Green function $g_M(z, w_0) = -\infty$ only when $z = w_0$. We will show that the closure of the imbedding of M into $L^1(M, V)$ by the mapping Φ defined as $\Phi(w) = c(w) g_M(z, w)$, where $c(w)$ is a normalizing factor, is a biholomorphically invariant compactification of M.

Alle Interessenten sind herzlich eingeladen!

gez. Prof. N. Shcherbina