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Im Rahmen der

AG Komplexe Analysis

laden wir zu folgendem Vortrag ein:

On extension problem on 1-convex spaces.

(Jasna Prezelj, Ljubljana)

am **Dienstag, den 02.04.2019, um 14 Uhr c.t. in Raum G.15.20.**

Abstract: We present an extension problem for 1-convex manifolds embedded as a slice in a holomorphic submersion. Given a submersion $Z \rightarrow X$, a section $a : X \rightarrow Z$ and a vector bundle $E \rightarrow Z$, we would like to find an extension of a section $s : a(X) \rightarrow E$ to a neighbourhood of $a(X)$. In the case of 1-complete (e.g. Stein) manifolds (and spaces) the theorem of Siu provides a Stein neighbourhood of such a slice (and therefore also extensions), but analogous results no longer hold in the 1-convex case. However, there exist particular extensions on neighbourhoods of subsets of the form $a(X \setminus Y)$ where Y is a zero set of a suitable holomorphic function. If E is a vertical tangent bundle of Z then such extensions generate local sprays, a tool used in the Oka principle.

Alle Interessenten sind herzlich eingeladen!

gez. Prof. N. Shcherbina