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Im Rahmen der

AG Komplexe Analysis

laden wir zu folgendem Vortrag ein:

Riemann-Hilbert problems with singularities

(Florian Bertrand, American University of Beirut)

am Montag, den 05.01.2015, um 16 Uhr c.t. in Raum D.13.11.

Abstract: The study of analytic discs attached to a totally real submanifold M of \mathbb{C}^n leads to the consideration of a Riemann-Hilbert problem. Following this approach, Forstneric, and later on Globevnik, characterized the existence and dimension of a family of deformations of a given analytic disc attached to M in terms of certain indices. However, in case M admits complex points, the indices mentioned above are no longer well-defined and the Forstneric-Globevnik method falls apart. In this talk, I will focus on a class of such Riemann-Hilbert problems with singularities. We will see that they can be solved by a factorization technique in order to reduce them to regular Riemann-Hilbert problems with geometric constraints. In particular, we will deduce the existence of stationary type discs attached to finite type hyper surfaces.

Alle Interessenten sind herzlich eingeladen!

gez. Prof. N. Shcherbina