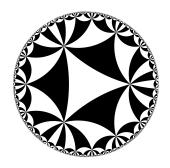
Universität Würzburg Institut für Mathematik Lehrstuhl Mathematik IV Komplexe Analysis



Oberseminar Funktionentheorie

Freitag, 15.11.2024, 14.00 Uhr Mathematik Ost, 40.03.003

Prof. Dr. Javad Mashreghi

(University Laval, Canada)

Outer Functions and Uniform Integrability, I

Abstrakt. If f is an outer function and φ is a self-map of the open unit disc, then $f \circ \varphi$ is also an outer function. While this result is often considered folklore, its proof is not straightforward. To better understand the intrinsic properties of outer functions and establish a proof for the above result, the concept of uniform integrability emerges as a fundamental aspect. In fact, uniform integrability serves as a backbone for outer functions and, in a broader sense, for functions in the Smirnov class. Our aim in these talks is to explore these concepts and their interconnections.

Alle Interessenten sind herzlich eingeladen!