Oberseminar Funktionentheorie

Friday, February 16, 2023, 4:15 pm

Join Zoom Meeting

`https://uni-wuerzburg.zoom.us/j/66097100430?pwd=VU91MUtHd3dNNHlyYjJJcDVLanpZdz09`

Meeting ID: 660 9710 0430 Password: 789347

Christina Karafyllia

(Stony Brook, USA)

Conformal invariants and conformal mappings in Hardy spaces

Abstract. This talk is about a classical problem in complex analysis and geometric function theory: finding geometric conditions for a conformal mapping of the unit disk to belong to Hardy spaces. We give such necessary and sufficient conditions by studying the harmonic measure, the hyperbolic metric and the extremal distance in the image region of the mapping. Moreover, we describe the Hardy number of a simply connected domain in terms of these conformal invariants and give some applications in comb domains.

Alle Interessenten sind herzlich eingeladen!