

Prof. Daoud Bshouty

Department of Mathematics, Technion, Haifa

Boundary Behaviour of Planar Harmonic Maps Versus Dilatation

The existence of the Riemann mapping theorem (RMT), for harmonic mappings with dilatation bounded away from one, from the unit disk D onto any simply connected domain Ω that is locally connected is well known to extend uniquely and continuously to ∂D and maps it onto $\partial \Omega$. The question we deal with is the boundary behavior of the RMT when the dilatation is a Blaschke product finite or infinite.