Analysseminariet

Peter Sjögren: Convergence for the square root of the Poisson kernel.

Abstract: In the ordinary Poisson integral in the unit disc, one replaces the kernel by its square root. This produces eigenfunctions of the hyperbolic Laplacian. After normalization they converge to the given boundary function. For an L^p boundary function, this convergence takes place in an approach region which is wider than any nontangential cone, and which gets wider with increasing p (results by Sjögren and Rönning). We shall see which approach regions occur for L^∞.

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