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Zero sets and capacity

While the Blaschke condition completely settles the question of zero sets and uniqueness sets in the Hardy space H^p , the corresponding question is yet open in several closely related function spaces. In the classical Dirichlet space, there is a sufficient condition by H. Shapiro, Shields for the zeros sets, whose sharpness is crystalized by a result of Nagel, Rudin, J. Shapiro. A complete characterization is not available yet. We provide some new results which are not covered by the classical theorems.

Joint work with K. Kellay.