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One-box conditions for Carleson measures for the Dirichlet space

A measure μ on the unit disk is called a Carleson measure for the Dirichlet space $\mathcal{D}$ if $\mathcal{D} \subset L^2(\mu)$. Several characterizations of such measures are known, none of them simple. In this talk, I shall discuss a family of simple sufficient conditions for μ to be a Carleson measure for $\mathcal{D}$, in the spirit of Carleson's original characterization of Carleson measures for the Hardy spaces. (Joint work with Omar El-Fallah, Karim Kellay and Javad Mashreghi.)