

Carleson Measures for Spaces of Analytic Functions.

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Carleson measures are a fundamental object in the study of function spaces in one and several variables. While these measures can be defined purely in terms of function theory, in applications of these measures one wants a more 'usable' equivalent characterization of these measures. Finding this equivalent characterization will connect us to the study of weighted inequalities in harmonic analysis and bring in a large family of tools by which to study these objects and questions. In this talk we will discuss recent results where the characterization of these measures is obtained by testing conditions. In particular we will discuss how this plays a role in understanding the Carleson measure for Besov-Sobolev spaces and for model spaces.