

SEMINARIO DE ANÁLISIS COMPLEJO

Duality of holomorphic Hardy type tent spaces

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Resumen:

A well-known characterization of the holomorphic Hardy spaces establishes an equivalent norm in terms of the p -norm of the square function of the derivative. By replacing the square function by a more general q -area function, one arrives at the concept of holomorphic tent spaces. Classical Hardy spaces, their derivatives, as well as the standard weighted Bergman spaces are all special cases of such tent spaces.

We will describe the dual of these tent spaces for the full scale $p, q > 0$. It turns out that perhaps the most interesting cases are those, where p and q are small. We will also discuss some related topics.