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*The boundedness of Hankel forms and operators*

In this research, we focus on characterizing the boundedness of the bilinear Hankel form and the Hankel operator in the context of the weighted Bergman spaces, where the weights satisfy an upper-doubling requirement. The Hankel form and Hankel operator are also connected to the problem of Hankel measures. Therefore, our next goal is to characterize  $p$ -Hankel measures for  $p \leq 2$ . The proofs rely on duality and factorization from the existing theory of weighted Bergman spaces and the recent results on two-weight fractional derivatives.