

Operator Theory and Analytic Function Spaces

Duality of weighted Bergman spaces with small exponents

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We consider the weighted Bergman spaces consisting of p -integrable analytic functions for small p . Under general conditions on the weight, we show that the duals of such Bergman spaces are all isomorphic to the Bloch space. The dual pairing is induced by another weight, which has to be chosen quite carefully. The result is well-known in the setting of standard weights; and we explain the main obstructions one has to overcome in this more general case.

This talk is based on a joint work with Jouni Rättyä.