

Reproducing Kernels for hardy and Bergman spaces of the upper half plane

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Using invertible isometries between Hardy and Bergman spaces of the unit disk D and the corresponding spaces of the upper half plane \mathbb{H} , we determine explicitly the reproducing kernels for the Hardy and Bergman spaces of \mathbb{H} . As a consequence, we obtain the duality relations for the reflexive Hardy and Bergman spaces of the half plane \mathbb{H} .

Keywords: Analytic functions; Reproducing kernel; Hardy and Bergman spaces; Bergman projection; Szegő projection; Duality.