

C-SELFADJOINTNESS OF THE PRODUCT OF A COMPOSITION OPERATOR AND A MAXIMAL DIFFERENTIATION OPERATOR

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Abstract. Let φ be an automorphism of \mathbb{D} . In this paper, we consider the operator $C_\varphi D_{\psi_0, \psi_1}$ on the Hardy space H^2 which is the products of composition and the maximal differential operator. We characterize these operators which are C -selfadjoint with respect to some conjugations C . Moreover, we find all hermitian operators $C_\varphi D_{\psi_0, \psi_1}$, when φ is a rotation.

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