

HYPONORMALITY OF TOEPLITZ OPERATORS WITH POLYNOMIAL SYMBOLS ON THE VECTOR VALUED BERGMAN SPACE

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Abstract. We arrive at a necessary condition and a sufficient condition for the hyponormal block Toeplitz operator T_{F+G^*} on the vector valued Bergman space $L_a^2(\mathbb{D}, \mathbb{C}^n)$, where F and G are matrix valued analytic polynomials. Both of them are also new for the Bergman space $L_a^2(\mathbb{D})$.

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