A SUBNORMAL TOEPLITZ COMPLETION

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Abstract. In this paper we deal with a subnormal Toeplitz completion problem: Complete the unspecified Toeplitz operators of the partial block Toeplitz matrix

$$G := \begin{bmatrix} U^{*p} & ? \\ ? & U^{*q} \end{bmatrix} \quad (p, q = 1, 2, \cdots)$$

to make G subnormal, where U is the shift on the Hardy space $H^2(\mathbb{T})$ of the unit circle $\mathbb{T}$.

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