

INVERTIBILITY IN NEVANLINNA QUOTIENT ALGEBRAS AND INTERPOLATING SEQUENCES

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ABSTRACT. Let I be an inner function in the unit disk \mathbb{D} and let \mathcal{N} denote the Nevanlinna class. We prove that under natural assumptions, Bezout equations in the quotient algebra $\mathcal{N}/I\mathcal{N}$ can be solved, and in particular any class that is bounded below on the zeros of I by the exponential of a negative harmonic functions is invertible, if and only if the zeros of I form a finite union of Nevanlinna interpolating sequences. This is in contrast with the situation in the algebra of bounded analytic functions, where being a finite union of (usual) interpolating sequences is a sufficient but not necessary condition. We investigate the question of invertibility of a particular class when I is a Blaschke product which does not satisfy the above condition.