

FINITE RANK INTERMEDIATE HANKEL OPERATORS ON THE BERGMAN SPACE

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Abstract. In this paper we characterize the kernel of an intermediate Hankel operator on the Bergman space in terms of the inner divisors and obtain a characterization for finite rank intermediate Hankel operators.

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References

- [1] N. Das, *The kernel of a Hankel operator on the Bergman space*, Bull. London Math. Soc. **31** (1999), 75-80. [MR1651001\(99j:47034\)](#). [Zbl 0942.47015](#).
- [2] P. L. Duren, D. Khavinson, H.S. Shapiro and C. Sundberg, *Contractive zero-divisors in Bergman spaces*, Pacific J. Math. **157** (1993), 37-56. [MR1197044\(94c:30048\)](#). [Zbl 0739.30029](#).
- [3] P.L. Duren, D. Khavinson, H. S. Shapiro and C. Sundberg, *Invariant subspaces in Bergman spaces and the biharmonic equation*, Michigan Math. J. **41** (1994), 247-259. [MR1278431\(95e:46030\)](#). [Zbl 0833.46044](#).
- [4] H. Hedenmalm, *A factorization theorem for square area-integrable analytic functions*, J. Reine. Angew. Math. **422** (1991), 45-68. [MR1133317\(93c:30053\)](#). [Zbl 0734.30040](#).
- [5] B. Korenblum and M. Stessin, *On Toeplitz-invariant subspaces of the Bergman space*, J. Funct. Anal. **111** (1993), 76-96. [MR1200637\(94f:30049\)](#). [Zbl 0772.30042](#).
- [6] E. Strouse, *Finite rank intermediate Hankel operators*, Arch. Math. (Basel) **67** (1996), 142-149. [MR1399831\(97i:47047\)](#). [Zbl 0905.47014](#).

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- [7] K. Zhu, *Operator theory in function spaces*, Monographs and Textbooks in Pure and Applied Mathematics, Marcell Dekker, Inc. **139**, New York and Basel, 1990. [MR1074007\(92c:47031\)](#). [Zbl 0706.47019](#).

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