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## SOME NOTES ON M-HYPONORMAL WEIGHTED SHIFTS AND HYPONORMALIZABLE WEIGHTED SHIFTS

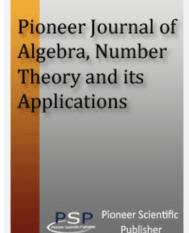
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## Abstract

Let  $\{a_n\}_{n=0}^{\infty}$  be a weight sequence and let *W* denote the associated unilateral weighted shift on *H*. In this paper, we consider the connection between the *M*-hyponormal and hyponormalizable weighted shifts operators. Main results are Theorems 4.1 and 4.2. Theorem 4.1 is the sufficient condition when a weighted shifts *M*-hyponormal operator become hyponormalizable. Theorem 4.2 is the sufficient condition when a weighted shifts hyponormalizable operator become *M*-hyponormal. Finally, invariant subspaces of such operators are discussed.

Keywords and phrases: *M*-hyponormal, unilateral weighted shifts, spectral radius, positive operator.



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