



UNIQUENESS OF MEROMORPHIC FUNCTION WITH CERTAIN TYPES OF DIFFERENCE POLYNOMIALS SHARING A SMALL FUNCTION IM

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Abstract. In this article, we consider the uniqueness problem of certain types of difference polynomials $[f^n P(f) \prod_{j=1}^d f(z + c_j)^{\mu_j}]^{(k)}$, where $f(z)$ nonconstant finite-order meromorphic function with the concept of sharing a small function IM. Our result generalizes the recent results of Dyavanal and Mathai (Ukrainian Math. J. 71(7):1032–1042, 2019).

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