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Some results on value distribution and uniqueness for q -shift difference polynomials of meromorphic functions

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Abstract

In the present paper, we investigate the problem on the value distribution and uniqueness for q -shift polynomials of transcendental meromorphic(entire) functions of zero order of the form $f^m(z)P_n(f(qz + \eta))f^{(k)}(z)$. By introducing the weighted sharing our results take a new form. We obtain analogous results due to the authors H. Y. Xu, K. Liu and T. B. Cao [25], which is the motivation for our work on the above mentioned combination.

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Transcendental meromorphic functions, q -shift difference polynomials, zero order

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