

MEHLER–HEINE TYPE FORMULAS FOR CHARLIER AND MEIXNER POLYNOMIALS II. HIGHER ORDER TERMS

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Abstract. We derive Mehler–Heine type asymptotic expansions for Charlier and Meixner polynomials. These formulas provide good approximations for the polynomials in the neighborhood of $x = 0$, and determine the asymptotic limit of their zeros as the degree n goes to infinity.

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