

## 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.

*Mathematics subject classification (2010):* Primary: 41A30, secondary: 33A65, 33A15, 44A15.

*Keywords and phrases:* Mehler–Heine formulas, discrete orthogonal polynomials.

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