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Asymptotics of the associated Pollaczek polynomials (Joint with Min-Jie Luo)

In this talk, we present the large- n behavior of the associated Pollaczek polynomials $P_n^\lambda(z; a, b, c)$. These polynomials involve four real parameters λ , a , b and c , in addition to the complex variable z . Asymptotic formulas are derived for these polynomials, when z lies in the complex plane bounded away from the interval of orthogonality $(-1, 1)$, as well as in the interior of the interval of orthogonality.