

The Askey–Wilson polynomials and q -series identities

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The Askey–Wilson polynomials are a family of orthogonal polynomials which include many of the other orthogonal polynomials in one variable as special or limiting cases. In this talk, we will discuss some applications of the Askey–Wilson polynomials to q -series identities. The orthogonality relation for the Askey–Wilson polynomials is used to derive some q -series identities.