

## A quantum algebra approach to multivariate Askey–Wilson polynomials

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**04.03****Wolter Groenevelt***(Delft University of Technology, Netherlands)***Time:** Thursday 25.07., 11:30 - 12:00, Room HS 6

**Abstract:** In this talk we show that the multivariate Askey–Wilson polynomials introduced by Gasper and Rahman occur as matrix elements of representations of the quantum algebra  $\mathcal{U}_q(su(1, 1))$ . From this interpretation several properties of the polynomials, e.g. orthogonality, can be obtained.