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Some remarks on very-well-poised 8phi7 series

Jasper V. Stokman

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Nonpolynomial basic hypergeometric eigenfunctions of the second order Askey-Wilson difference operator are known to be expressible as very-wellpoised 8phi7 series. In this paper we use this fact to derive various basic hypergeometric and theta function identities. We relate most of them to identities from the existing literature on basic hypergeometric series. This leads for example to a new derivation of a known quadratic transformation formula for very-well-poised 8phi7 series. We also provide a link to Chalykh's theory on (rank one, BC type) Baker-Akhiezer functions.

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