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99j:33022

Foupouagnigni, M.; **Ronveaux, A.** (B-NDP-MP); **Koepf, W.** (D-HTWK-NS)

Fourth order q-difference equation for the first associated of the q-classical orthogonal polynomials. (English summary)

J. Comput. Appl. Math. **101** (1999), *no. 1-2,* 231–236.

33D45 (39A10)

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Summary: "We derive the fourth-order q-difference equation satisfied by the first associated of the q-classical orthogonal polynomials. The coefficients of this equation are given in terms of the polynomials σ and τ which appear in the q-Pearson difference equation $D_q(\sigma\rho) = \tau\rho$ defining the weight ρ of the q-classical orthogonal polynomials inside the q-Hahn tableau."