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Jae-Ho Lee* (jaeho.lee@unf.edu), 1 UNF Drive, Jacksonville, FL 32224. *Distance-regular graphs and degenerate DAHAs.*

By a theorem of Leonard (1982), the duality property of Q -polynomial distance-regular graphs characterizes the terminating branch of the Askey scheme of (basic) hypergeometric orthogonal polynomials, at the top level of which are the q -Racah polynomials. In this talk we consider the degeneration of the q -Racah polynomials until two arrows down in the Askey scheme. For each level, we discuss the associated distance-regular graphs, (degenerate) DAHAs, and the non-symmetric (or Laurent) polynomials and their orthogonal relations. (Received July 16, 2019)