1122-05-190   **Paul M Terwilliger*** (`terwilli@math.wisc.edu`), U. Wisconsin Math Department, 480 Lincoln Drive, Madison, WI 53706. *Tridiagonal pairs of q-Racah type, the Bockting operator ψ, and L-operators for $U_q(L(\mathfrak{sl}_2))$.*

Tridiagonal pairs are used to describe the irreducible modules for the subconstituent algebra of a Q-polynomial distance-regular graph. Associated with any tridiagonal pair is a certain operator ψ due to Sarah Bockting-Conrad. We describe ψ for a tridiagonal pair of q-Racah type, in terms of a certain L-operator for the quantum loop algebra $U_q(L(\mathfrak{sl}_2))$. (Received August 13, 2016)