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Sarah R. Bockting-Conrad* (sarah.bockting@depaul.edu). *Connections between the ψ , Δ , and \mathcal{M} operators for a thin tridiagonal pair.*

Let \mathbb{K} denote an algebraically closed field and let V denote a vector space over \mathbb{K} with finite positive dimension. Let A, A^* denote a tridiagonal pair on V which has q -Racah type. In an earlier talk, we introduced the linear transformations $\psi : V \rightarrow V$, $\Delta : V \rightarrow V$, and $\mathcal{M} : V \rightarrow V$, each of which acts on the split decompositions of V in an attractive way. In this talk we focus on the situation when the tridiagonal pair A, A^* is thin. For this case, we will describe the relationship between these transformations in detail. (Received August 15, 2016)