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General slope diagonal sums of noncommuting q -table

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Abstract. We study s -slope diagonal sums $D_{(s),n}^{(q)}$ over q -commuting table $C^{(q)}$ for $q \in \mathbb{Z}$ and $s \geq 0$. We first investigate sequential properties of diagonal sums $\hat{D}_{(s),n}$ over q -commuting coefficient table \hat{C} , and then retrieve diagonal sum $D_{(s),n}^{(q)}$ over $C^{(q)}$.

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Keywords: q -commuting table, diagonal sum, recurrence rule
