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On Zudilin's q-question about Schmidt's problem

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For any integer \$r\geqslant 2\$, using the \$q\$-Pfaff-Saalsch\"utz identity, we prove that there exists a (unique) sequence of Laurent polynomials $\left(b^{(r)}\right)$ k(q) {k=0}/\infty\$ in \$q\$ with nonnegative integral coefficients such that $sum_{k=0}^n q^{-rnk} \{n k^r \{n+k k^r = sum_{k=0}^n q^{-nk}\}$ {n\brack k}{n+k\brack k}b^{(r)}_k(q), where \${n\brack k}\$ denotes the \$q\$binomial coefficient. This gives a new solution to Zudilin's question about finding a \$q\$-analogue of Schmidt's problem.

Comments: 5 pages, two open problems are added Subjects: Combinatorics (math.CO) MSC classes: 05A10, 05A30, 11B65 Cite as: arXiv:1204.0187v2 [math.CO]

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