

SIDE 14.2



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A Weighted and Elliptic extension of Fibonacci numbers

Friday 23 Jun 2023 at 12:30 (00h30')

Content :

We extend Fibonacci numbers with arbitrary weights and generalize a dozen Fibonacci identities. As a special case, we propose an elliptic extension which extends the q -Fibonacci polynomials appearing in Schur's work. The proofs of most of the identities are combinatorial, extending the proofs given by Benjamin and Quinn, and in the q case, by Garrett. Some identities are proved by telescoping.

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