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Dimension elevation formula for Chebyshevian blossoms. (English) Zbl 1205.41030

Summary: A given polynomial of degree less than or equal to \( n \) naturally “blossoms” into a function of \( n \) variables called its blossom. Considered as a polynomial function of degree less than or equal to \( (n+1) \) it “blossoms” into a “new” blossom which is now a function of \( (n+1) \) variables. A classical formula expresses any value of this new blossom as a strictly convex combination of \( (n+1) \) values of the initial one. We establish a similar formula for Chebyshevian blossoms.

MSC:

41A50 Best approximation, Chebyshev systems

Full Text: DOI

References:


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