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HERMITE INTERPOLATION AND INEQUALITIES INVOLVING WEIGHTED AVERAGES OF n–CONVEX FUNCTIONS

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Abstract. By using Hermite interpolation we obtain Popoviciu-type inequalities containing sums $\sum_{i=1}^{m} p_i f(x_i)$, where f is an n-convex function. We also give integral analogues of the results, as well as bounds for integral remainders of identities associated with the obtained inequalities.

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