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**Title:** A weighted Hermite–Hadamard-type inequality for convex-concave symmetric functions

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In this paper we give a weighted version of the Hermite–Hadamard inequality

$$f\left(\frac{a+b}{2}\right) \underset{(\leq)}{\geq} \frac{1}{b-a} \int_a^b f(x) dx \underset{(\leq)}{\geq} \frac{f(a)+f(b)}{2}.$$

An extension of that result, applied for convex-concave symmetric functions, will also be provided.

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