

INEQUALITIES OF THE EDMUNDSON-LAH-RIBARIČ TYPE FOR SELFADJOINT OPERATORS IN HILBERT SPACES

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Abstract. By exploiting some scalar inequalities obtained via Hermite's interpolating polynomial, we will obtain lower and upper bounds for the difference in Jensen's inequality and in the Edmundson-Lah-Ribarič inequality for selfadjoint operators in Hilbert space that hold for the class of n -convex functions. As an application, main results are applied to quasi-arithmetic operator means, with a particular emphasis to power operator means.

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