UPPER BOUND FOR SPECTRA OF JENSEN OPERATOR AND ITS APPLICATION TO REVERSE ARITHMETIC–GEOMETRIC MEANS

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Abstract. In this paper we consider Jensen’s operator, which includes bounded self-adjoint operator on Hilbert space, and establish the optimal upper bound for Jensen’s operator by means of discrete Jensen’s functional. The obtained results are applied to operator means, then we get refinements of numerous reverse arithmetic-geometric operators mean inequalities on Hilbert space.

Keywords and phrases: Jensen operator, reverse arithmetic-geometric means, Jensen’s functional.

REFERENCES