

FURTHER JENSEN—MERCER'S TYPE INEQUALITIES FOR CONVEX FUNCTIONS

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Abstract. This article considers the class of convex functions and derives further Jensen-Mercer's-type inequalities. The obtained results improve and generalize some known inequalities. A reverse of Jensen-Mercer's inequality for scalars and operators is also given. As an application, we provide a new and non-trivial inequality related to the Wigner-Yanase-Dyson function and the logarithmic mean.

Mathematics subject classification (2020): Primary 26A51, 47A63; Secondary 26D15.

Keywords and phrases: Jensen-Mercer inequality, convex function, continuous functional calculus.

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