

POWER MONOTONICITY FOR A PATH OF OPERATOR MEANS

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ABSTRACT. We discuss the power monotonicity of the family $\{F_{p,q} | p, r \in \mathbb{R}\}$ of parametrized representing functions of Kubo-Ando operator means, which is introduced in our preceding paper. It includes several important representing functions, for example, arithmetic, geometric, harmonic, logarithmic, power and Stolarsky means. We shall discuss conditions of power monotonicity of functions.

Key words and phrases. operator monotone function, operator mean, power monotonicity, extension of the power difference mean.