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Y. Chu

Dept. of Mathematics, Huzhou Teachers College, Zhejiang, Huzhou 313000, P. R. China
chuyuming@hutc.zj.cn

X. Zhang

Haining Radio and TV University, Haining 314400, P. R. China

G. Wang

Dept. of Mathematics, Huzhou Teachers College, Huzhou 313000, P. R. China

The Schur Geometrical Convexity of the Extended Mean Values

We prove that the extended mean values $E(r, s; x, y)$ are Schur geometrically convex (or concave, respectively) with respect to $(x, y) \in (0, \infty) \times (0, \infty)$ if and only if $s + r \geq 0$ (or $s + r \leq 0$, respectively).

Keywords: Extended mean value, Schur convex, Schur concave, Schur geometrically convex, Schur geometrically concave.

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