

ON LOGARITHMIC CONVEXITY FOR DIFFERENCES OF POWER MEANS AND RELATED RESULTS

MATLOOB ANWAR AND JOSIP PEČARIĆ

Abstract. We give some further considerations about logarithmic convexity for differences of power Means for positive linear functionals as well as some related results.

Mathematics subject classification (2000): 26A51, 26A46, 26A48.

Keywords and phrases: Jensen's inequality, log-convex function, linear functional and power means.

REFERENCES

- [1] W. S. CHEUNG, A. MATKOVIĆ, AND J. PEČARIĆ, *A variant of Jessen Inequality and Generalized Means*, J. Ineq. Pure and Appl. Math. **7** (2006), Issue 1, Article 10.
- [2] G. H. HARDY, J. E. LITTLEWOOD, G. PÓLYA, *Inequalities*, Cambridge University Press, Cambridge, 1978.
- [3] D. S. MITRINOVIĆ, *Analytic Inequalities*, Springer-Verlag, Berlin, 1970.
- [4] J. E. PEČARIĆ, F. PROSCHAN AND Y. C. TONG, *Convex functions, Partial Orderings and Statistical Applications*, Academic Press, New York, 1992.
- [5] J. E. PEČARIĆ, *Inverse of Jensen-Steffensen's inequality*, Glasnik Matematički **16**(36), 229–233.
- [6] S. SIMIĆ, *On logarithmic convexity for differences of power means*, J. Inequal. and Appl., vol. 2007, Article 37359, 8 pages, 2007.