

FUNCTIONAL MEANS WITH A PARAMETER

ZHENG LIU

Abstract. In this paper, a family of functional means with a parameter and their basic properties are introduced, some characterizations of extended mean values are obtained.

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REFERENCES

- [1] S. Y. CHUNG, *Functional means and harmonic functional means*, Bull. Austral. Math. Soc. **57**, (1998), 207–220.
- [2] E. B. LEACH, M. C. SCHOLANDER, *Extended mean values*, Amer. Math. Monthly **85**, (1978), 84–90.
- [3] E. B. LEACH, M. C. SCHOLANDER, *Extended mean values II*, J. Math. Anal. Appl. **92**, (1983), 207–223.
- [4] K. B. STOLARSKY, *Generalization of the logarithmic mean*, Math. Mag. **48**, (1975), 87–92.
- [5] M. B. SUN, *Inequalities for two-parameter mean of convex function*, J. Math. Res. Expo. **17**, (1997), 631–632.