SOME PROPERTIES OF CAUCHY QUOTIENT MEANS

MARTIN HIMMEL, UNIVERSITY OF ZIELONA GÒRA

Means belonging to the class of beta-type functions, i.e. which can be written in the form

$$B_{f,k}(x_1,\ldots,x_k) = \frac{f(x_1)\cdot\ldots\cdot f(x_k)}{f(x_1+\ldots+x_k)},$$

for some positive function f, are examined.

The three other classes of Cauchy quotients, each of them naturally linked to one of the remaining Cauchy equations, is introduced and some of their properties are discussed.

REFERENCES

- [1] M. Himmel, J. Matkowski, Homogeneous beta-type functions (J. Class. Anal., Volume 10, Number 1 (2017), 59–66.
- [2] M. Himmel, J. Matkowski, Beta-type means (to appear in J. Difference Equ. Appl.).