

ALMOST CONVEX FUNCTIONS ON LOCALLY COMPACT ABELIAN GROUPS

WITOLD JARCZYK AND MIKLÓS LACZKOVICH

Abstract. Let G be a locally compact Abelian group divisible by 2. We prove that every almost convex function on G equals a convex function a.e.

Mathematics subject classification (2010): 22D99.

Keywords and phrases: Almost convex functions, locally compact Abelian group.

REFERENCES

- [1] E. HEWITT AND K. A. ROSS, *Abstract Harmonic Analysis*, Vol. I. Springer, 1979.
- [2] M. KUCZMA, *Almost convex functions*, *Colloq. Math.* **21** (1970), 279–284.
- [3] M. KUCZMA, *An introduction to the theory of functional equations and inequalities. Cauchy's equation and Jensen's inequality*, Państwowe Wydawnictwo Naukowe, Uniwersytet Śląski, Warszawa-Kraków-Katowice, 1985.
- [4] W. RUDIN, *Fourier Analysis on Groups*, Reprint of the 1962 original. John Wiley & Sons, 1990.