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Title: On subgroups of the multiplicative group of the positive real numbers associated to information functions

Author(s): Gyula Maksa

In this note, we solve two problems formulated in the book ACZÉL–DARÓCZY [1]. These problems refer to the connection between information functions and certain subgroups of the multiplicative group of positive real numbers. Our main result can also be considered as a new characterization of the Shannon information function.

Address:

Gyula Maksa
Institute of Mathematics
University of Debrecen
H-4010 Debrecen, P.O. Box 12
Hungary