

A new look at the Hardy-Littlewood-Pólya inequality of majorization

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28.10.2021

Abstract

We discuss some consequences of the beautiful proof of Ball's theorem on the sections of the unit cube as was given by Nazarov and Podkorytov via an ingenious lemma on distribution functions. The main bibliographical source is: Astashkin, Sergey V., Konstantin V. Lykov, and Mario Milman. "Majorization revisited: Comparison of norms in interpolation scales." arXiv preprint arXiv:2107.11854 (2021).