

Weighted exponential densities

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Joint work with Rita Giuliano (Pisa), to appear in *Mathematica Slovaca*, under the title "On the upper and lower exponential density functions"*. We introduce the upper and lower exponential density functions of a set A of positive integers. They are weighted exponential densities with weights n^α , considered as functions of α . We identify completely the form of the upper density function and find properties of the lower one. We provide examples and list some open problems.

* Available at <http://webperso.univ-st-etienne.fr/%7egrekos/MaSlo15.pdf>.