Accepted Manuscript

Density matrix for a consistent non-extensive thermodynamics

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PII:	\$0378-4371(18)31085-9
DOI:	https://doi.org/10.1016/j.physa.2018.08.145
Reference:	PHYSA 20031
To appear in:	Physica A
Received date :	14 June 2018
Revised date :	7 August 2018



Please cite this article as: M.R. Ubriaco, Density matrix for a consistent non-extensive thermodynamics, *Physica A* (2018), https://doi.org/10.1016/j.physa.2018.08.145

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We obtain a density matrix for a consistent non-extensive thermodynamics.

We obtain the corresponding partition function for boson and fermion cases.

The unnormalized density matrix leads to a two-parameter nonlinear differential equation relevant to anomalous diffusion

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