

Power law entropies for parabolic systems?

Nikolaos Kalogeropoulos

The American University Of Iraq - Baghdad, Baghdad, Iraq

We present some hand-waving arguments which may lead someone to suspect that power law entropies (such as the q -entropy) may be appropriate for encoding the statistical behavior of a parabolic dynamical system. We make some comments on the case of low-dimensional collision-less, non-relativistic plasma where the effects of the magnetic field can be neglected, as a potential example for testing concretely these ideas.