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Gibbs’ paradox in the light of Newton’s notion of state. (English) Zbl 1179.82011

Summary: It is argued that the correct counting of microstates is obtained from the very beginning when using Newtonian rather than Laplacian state functions, because the former are intrinsically permutation invariant.

MSC:
82B05 Classical equilibrium statistical mechanics (general)
78A99 General topics in optics and electromagnetic theory

Keywords:
Gibbs’ paradox; classical statistical mechanics of indistinguishable particles; state

Full Text: DOI

References:

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