The Non-Equilibrium Theory of Bayes and McKeon

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Abstract

The Non-Equilibrium Theory of Bayes and McKeon (NFT) is a non-perturbative theory of the α-fermion ϕ^4. The theory is constructed by means of the anisotropic Bayes-McKeon equations. The theory is defined by the linearized and non-linearized equivariant equations. In the presence of anisotropic boundary, the theory is constructed by means of the a priori solution of the linearized and non-linearized equivariant equations. The partition function, the equation of state, the energy, the volume of the gas and the time dimension are obtained. The total mass and charge are computed. The partition function is also found. The non-equilibrium condition in the presence of anisotropic and anisotropic boundary states are obtained. It is shown that the Non-Equilibrium Conditions are not a priori consistent with the properties of the ϕ^4 theory.