

On the path integral quantization of constrained systems based on Güler's and Batalin-Fradkin-Tyutin (BFT) methods

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Abstract

Constrained Hamiltonian systems are investigated by using Güler's method [1]. Integration of a set of equations of motion and the action function is discussed [2]. It is shown that the canonical path integral quantization [3] is obtained directly as an integration over the canonical phase-space coordinates without any need to enlarge the initial phase-space by introducing extra- unphysical variables as in the Batalin-Fradkin-Tyutin (BFT) method [4].

References

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