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Fine structure of constraints in Hamiltonian formulation. (English) Zbl 1028.83011
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Summary: We discuss constraint reorganization into first- and second-class, which is consistent with the Dirac procedure, i.e., which does not violate the division of the constraints according to their stages in the Dirac procedure. The possibility of such a reorganization is a crucial point in the study of relations between gauge symmetries in Lagrangian and Hamiltonian formulations.

MSC:

83C05 Einstein's equations (general structure, canonical formalism, Cauchy problems) Cited in 49 Documents
83C45 Quantization of the gravitational field

Keywords:

constraints; Hamiltonian formulation; singular Lagrange theory; Dirac procedure