

The Batalin-Lavrov-Tyutin method in the sp(3) BRST Hamiltonian quantization

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ABSTRACT

The possibility of implementation of a sp(3) BRST symmetry to a dynamical systems with linearly independent first class constraints is studied on the line of the Batalin, Lavrov Tyutin sp(2) theory. Some basic theorems concerning the existence of the anticommutative charges and of the extended Hamiltonian are proved and the gauge fixing procedure for this case is discussed.