The extended BRST Lagrangean formalism for the massive vector field with higher-order derivatives

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Abstract

The paper presents the whole Lagrangean formalism for the sp(2) BRST approach for the massive vector field with higher order derivatives. The BRST generator and the gauge-fixed action are obtained starting from the Hamiltonian sp(2) analyssis. The importance of this approach is connected with the possibility of explaining the form of the Lagrangean master equations and of understanding the significance of the non-canonical operators therein. We will perform an exhaustiv study, with detailed computations, trying by that to offer a model of the algorithm which have to be followed in such problems.