

An application of the Faddeev-Jackiw canonical analysis to Generalization of the Proca field

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We are interested in the generalization of the Proca field. In this work, we want to check that this system is a constrained system. Moreover, we want to check the number of degrees of freedom. We use the Faddeev-Jackiw method which is one of the techniques used for analyzing the constrained system. The result of this work shows that the system is a constrained system with 3 degrees of freedom.

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