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Generalized scalar Duffin-Kemmer-Petiau electrodynamics

The main goal of this work is to investigate the quantum interaction between scalar particles and gauge field in the context of Generalized Scalar Duffin-Kemmer-Petiau Electrodynamics (GSDKP) by quantizing the theory in a functional approach. The Hamiltonian structure is obtained with the Dirac method and the Faddeev-Senjanovic procedure is established in order to write the transition amplitude in an alternative gauge fixing, known as the non-mixing gauge. At least, the Schwinger-Dyson-Fradkin equations and the Ward-Takahashi-Fradkin identities are obtained.

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