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Hamilton-Jacobi Formulation of Siegel Superparticle

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Abstract: The Hamilton-Jacobi formalism of constrained systems is used to study Siegel superparticles moving in $R^{4 \mid 4}$ flat superspace. The equations of motion for a singular system are obtained as total differential equations in many variables. These equations of motion are in exact agreement with those obtained by Dirac's method.

Key Words: Hamilton-Jacobi formalism, Singular Lagrangian.

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