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Path Integral Quantization of Spinning Superparticle

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Abstract: The Hamilton-Jacobi formalism is used to discuss the path integral quantization of a spinning superparticle model. The equations of motion are obtained as total differential equations in many variables. The equations of motion are integrable, and the path integral is obtained as an integration over the canonical phase space coordinates.

Key Words: Hamilton-Jacobi formalism, Singular Lagrangian, Path integral quantization