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Integrable relativistic systems given by Hamiltonians with momentum-spin-orbit coupling

Alina Dobrogowska, Anatol Odzijewicz

(Submitted on 22 Jun 2011)

In the paper we investigate the evolution of the relativistic particle (massive and massless) with spin defined by Hamiltonian containing the terms with momentum-spin-orbit coupling. We integrate the corresponding Hamiltonian equations in quadratures and express their solutions in terms of elliptic functions.

Comments: 18 pages

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