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Mathisson's Equations without Him

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The main stages of investigations of spinning particle motions in general relativity, that are described by the equations which appeared in literature in 1937 due to the pioneer paper of Myron Mathisson (1897-1940), are under consideration. Period from 1940s up today is included. The specific properties of the highly relativistic regime of the spin-gravity coupling and spinning particle motions in the Schwarzschild, Kerr, and Schwarzschild-de Sitter backgrounds are discussed.

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