

Helicity Analysis of Relativistic Particles

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Abstract

In this paper, we first discussed the construct of one-body, two-body and three-body wave function of relativistic particles. We emphasized the construct of helicity wave function. Then we analysis the S-matrix of helicity state, helicity amplitudes and sections of scattering. We also analysis the contribution of all kinds of symmetry on S-matrix. At last, we discussed the helicity amplitudes and sections of scattering in all kinds of polarization.