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Type of Spin Polarization Dependence of the Neutrino Mass and Charge RASULKHOZHA S. SHARAFIDDINOV, Institute of Nuclear Physics, Uzbekistan Academy of Sciences, Tashkent, 100214 Ulugbek, Uzbekistan — Owing to an intimate connection between nature of particles and their masses, any massive neutrino has the longitudinal as well as the transversal polarization. This does not imply of course that the same neutrino must be simultaneously both a longitudinal and a transversal fermion. It is not excluded, however, that the longitudinal polarized neutrinos in the field of emission can be converted into the transversal polarized ones and vice versa. Therefore, it is desirable to raise the question as to whether there exists any spin polarization type dependence of the neutrino mass, charge and behavior. We investigate, thus, the problem of the neutrino latent mass investigating its interaction with the field of an electroweak emission in the polarization type dependence. One of the most highlighted features of our formulas for the discussed process cross sections is an indication to the existence of fundamental differences in masses as well as in charges of longitudinal and transversal neutrinos.

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