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Resonant channels in interactions of neutrinos with photons

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The interaction of neutrinos with photons at high energies is considered within the standard electroweak theory. It is pointed out that the theory admits the presence of resonant channels in the production of massive bosons in neutrino–photon reactions. Some consequences of the existence of such channels for scattering of neutrinos on atomic nuclei are discussed. In particular, we show the possibility of excitations of the CP-conjugate of the Glashow resonance in large-volume neutrino detectors, as the IceCube, Baikal-GVD and KM3NeT.

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