Asymmetry of antineutrino emission from neutron beta decay in magnetized superdense matter

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We have used exact solutions of Dirac equation for a quantitative estimation of the asymmetry of antineutrino emission from neutron beta-decays in degenerate magnetized Fermi gas of neutrons, protons and electrons. We have used a computer code for modeling this process. Our consideration is of interest for the physics of neutron stars because values of the matter parameters (temperature, magnetic field, density), which we employ, are typical for neutron star matter. We consider the dependence of the asymmetry on the magnetic field strength.