Photon-neutrino interactions in strongly magnetized plasma

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The influence of the strongly magnetized electron-positron plasma on the processes of two photon neutrino-antineutrino pair emission is investigated with respect to the magnetar model. The neutrino emissivity due to the photon-neutrino reactions is calculated taking into account the photon dispersion and large radiative correction. The role of the processes under consideration in the formation of giant flares in SGRs is discussed.