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Effect of magnetic field on kaon and antikaon in neutron stars

The medium modification in energies of kaon and antikaon at zero momentum in strongly magnetized asymmetric nuclear matter are explored using a chiral SU(3) model. The parameters used in this calculation are fitted to nuclear matter saturation properties and with vacuum masses of baryon. We have investigated the possibility of antikaon condensation in neutron star with charge neutrality and β -equilibrium condition. By considering the effect of anomalous magnetic moments (AMM) in present study it is observed that the density effect is dominating in medium as compared to magnetic field and isospin asymmetry.

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Collaboration / Activity

no

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