

Kicks of magnetized strange quark stars induced by anisotropic emission of neutrinos

Thursday, 28 September 2017 15:30 (0:30)

Content

Beta disintegration is studied in the presence of a magnetic field, which imposes a preferential direction on the emission of neutrinos. It is explored the possibility that this anisotropy in neutrino emission can account for observed Neutron (Quarks) Star velocities (kicks). The conditions under which the anisotropic emission of neutrinos (due to the magnetic field present in the system) causes a “kick” of the compact star are discussed.

Summary

Presenter(s) : Dr. MANREZA, Daryel (ICN-UNAM)

Session Classification : WG Condiciones Extremas (Alejandro Ayala)