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QGP In Astrophysics

Content :

Hadronic matter is expected to undergo a transition to Quark Gluon plasma (QGP) under conditions of high temperature and / or high densities. These conditions may be achieved for a brief moment in ultra relativistic heavy ion collisions (RHIC) but they are also likely to appear in nature. A very high density environment exists in the interior of neutron stars, which may actually contain significant amounts of quark matter in the interior. The Poster presentation compares equation of states of quark matter obtained by employing different confinement models. The structure of stars expected to contain quark matter in their interior, their mass-radius relationship, obtained by solving the Tolman-Oppenheimer-Volkov equations (TOV) for general relativistic stars using different equation of states will be included in the presentation.

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