

Neutrons Stars Structure and Twins

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In the modern analysis of the nuclear matter, the question related to quark-hadron phase transitions at high densities is intriguing, and the existence of such an issue can be discussed for astrophysical objects such as pulsars. The possibility of the existence of a phase transition inside pulsars leads to the concept of the hybrid structure of neutron stars. This phenomenon can be observed as the existence of massive stars with the same mass and different radii (twins). To study this phenomenon, it is useful to develop and apply simplified constructions of the quark-hadron phase transition.

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