

Effects of Density-Dependent Bag Constant and Strange Star Rotation

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(Received: 2002-7-11; Revised:)

Abstract: With the emphasis on the effects of the density-dependent bag constant and the rotation of strange star the limiting mass of strange star is calculated. The obtained results show that the limiting mass and the corresponding radius of strange star increase as the rotation frequency increases, and tend to be lowered when the density-dependent bag constant is considered.

PACS: 26.60.+c, 12.38.-t

Key words: density-dependent bag constant, rotation frequency of strange star, limiting mass and radius of strange star

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