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Stability and mass defect of hot strange dwarfs

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The dependences of the mass and the mass defect on the baryonic mass of the isothermal (the stars with the same core temperature) and the isentropic (the stars with the same entropies per one baryonic charge) series of the hot strange stars are investigated. The stability of these stars is determined by these dependences. It is shown that isentropic series of the hot strange stars are also isothermic series of these stars for the surface temperatures. It is also shown that the proximity of the points of the maximum mass and the loss of stability on the isothermal series is determined by very weak dependence of the numerical value of the maximum mass of strange stars on the value of the central temperature.

Type of contribution

Talk

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