

Compact stars in the QCD phase diagram VI (Cosmic matter in heavy-ion collision laboratories?)

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Exotic convection inside hybrid stars

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We show that the unusual thermodynamic properties of matter within the region of twophase coexistence in hybrid stars result in a change of the standard condition for beginning of convection. In particular, the thermal flux transported by convection may be directed towards the stellar center in this region. We consider favourable circumstances leading to such an effect of “inverse convection” and its influence on the thermal evolution of hybrid stars.

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