

The Structure and Signals of Neutron Stars, from Birth to Death



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The birth of quark stars

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The possible existence of two families of compact stars, neutron stars and quark stars, naturally leads to a scenario in which a conversion process between the two stellar objects occurs with a consequent release of energy of the order of 10^{53} erg. We discuss recent hydrodynamical simulations of the burning process and neutrino diffusion simulations of cooling of a newly formed strange star. We also discuss this scenario in connection with recent measurements of masses and radii of compact stars.

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