

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



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Optical companions to binary Millisecond Pulsars in Globular Clusters: the case of IGR J18245-2452/PSR J1824-2452I

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The identification of the optical companions to binary millisecond pulsars (MSPs) is fundamental to characterize the formation and evolutionary processes of these exotic objects and to constrain the neutron star mass. In Globular Clusters (GCs) it also represents a crucial tool for quantifying the occurrence of dynamical interactions and understanding the effects of high stellar densities on the evolution of binaries.

In this context I will present the main results recently obtained with the use of HST images that allowed us to successfully increase the number of identified companions to MSPs in GCs. In particular, I will focus my attention to the optical companion to the transient IGR J18245-2452/PSR J1824-2452I in the GC M28.

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