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Neutron stars in alternative theories of gravity - models, astrophysical implications and universal relations

Wednesday 27 April 2016 11:20 (50 minutes)

The talk is devoted on neutron stars in alternative theories of gravity: their structure, deviations from pure general relativity and astrophysical implications. Both static and rapidly rotating solutions are considered. A wide range of universal relations for neutron star and their generalization to alternative theories of gravity are also discussed. Among them are gravitational wave asteroseismology relations, the I-Love-Q relations, and relations involving the stellar compactness.

Presenter: Dr DONEVA, Daniela

Session Classification: Plenary Talk