Constraining f(R) Gravity with Modified Period Shifts in Pulsar Systems

Thursday 11 January 2024 14:00 (30 minutes)

Because of their high compactness and capability to bear dark charges neutron stars are very interesting objects when it comes to searching for deviations from general relativity. This is enabled by many observations of pulsar systems with astonishing precision in recent years. With these a general constraint on the parameters of f(R) theories can be calculated with a moderate numerical effort.

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