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Systematic analysis of the impacts of symmetry energy parameters on neutron star properties

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The impacts of various symmetry energy parameters on the properties of neutron stars have been recently investigated, and the outcomes are at variance. Results obtained from systematic analysis of the correlations of slope and curvature parameters of symmetry energy at the saturation density with the tidal deformability and stellar radius of non-spinning neutron stars in the mass range of $1.2-1.6M_{\odot}$ will be discussed.

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