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Special Issue Reprint

The Nuclear Physics of Neutron Stars

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Neutron stars are considered extraordinary astronomical laboratories for the physics of nuclear matter as they have the most fascinating constitution of energy and matter in the universe. Recently, the detection of gravitational waves from the merger of two neutron stars, in a binary neutron star system, has opened a new window to explore the physics of neutron stars. The following Special Issue is a collection of various contributions dedicated to modern applications of the theory of nuclear matter in neutron stars and its main purpose is to shed light on some of the open problems concerning the nuclear physics of neutron stars and how they can possibly be addressed or even answered.

