

PHAROS Conference 2020: The multi-messenger physics and astrophysics of neutron stars



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The Hadronic Equation of State for Neutron Stars (Invited Review Talk)

Friday 3 April 2020 09:30 (30 minutes)

The equation of state (EoS) of dense hadronic matter is of crucial importance for the description of the static and dynamical properties of neutron stars. In this talk I will review the current status of the hadronic EoS for neutron stars, from the point of both ab-initio many-body approaches and phenomenological models, paying a special attention to recent mean-field phenomenological schemes. The theoretical predictions for the hadronic EoS will be then compared to the data coming from both nuclear physics experiments and astrophysical observations, providing insights for future investigations.

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