

PHAROS Conference 2019: the multi-messenger physics and astrophysics of neutron stars



Contribution ID : 131

Type : **not specified**

Neutron stars, neutron skin and mirror nuclei

I will discuss whether correlations exist between the radius of neutron stars and various nuclear properties: nuclear parameters (symmetry energy, its slope, ...), neutron skin of neutron-rich nuclei and the difference in the charge radius of mirror nuclei. I will in particular point out that a careful treatment of the crust of neutron stars is critical when looking for correlations between the properties of neutron stars and the ones of nuclei and nuclear matter.

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