

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



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Magnetars and other classes of Isolated neutron stars in X-rays (Invited)

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Multi-wavelength observations over the last decades proved the existence of observationally very diverse manifestations of isolated NSs (INSs): radio-pulsars, Magnetars, X-ray Dim INSs (XDINSs), high-B rotation powered pulsars, Rotating radio transients (RraTs), and Central Compact Objects (CCOs). Among them magnetars and XDINSs are the most highly magnetized NSs and they also represent key targets for future polarimetric observations. In this talk I will briefly summarize the main characteristics of the various classes and I will review some perspectives for X-ray polarimetric magnetar observations.

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