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



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## Is there a pulsar wind nebula or a disk around RX J0806.4-4123?

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Extended near-infrared emission was recently discovered with the Hubble Space Telescope at the position of RX J0806.4-4123, an X-ray thermal isolated neutron star and member of the so-called Magnificent Seven. The nature of this infrared source is still a matter of debate. Both a pulsar wind nebula or a circumpulsar disk could be explanations. We will present a summary of the multiwavelength phenomenology of this neutron star including updates from recent X-ray observations. We will discuss the different models for the extended infrared emission with respect to the observational evidence.

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