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LOFT and the hunt for the Neutron Stars EOS

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The Large Observatory For x-ray Timing (LOFT) is a proposed space mission intended to answer fundamental questions about, among others, the state of matter in neutron stars. LOFT was recently selected by ESA (M3) as one of the four space missions concepts of the Cosmic Vision programme that will compete for a launch opportunity at the start of the 2020s. In this talk an overview of the dense matter Working Group activities will be presented, with particular emphasis on the ways the neutron star equation of states can be studied thanks to the unprecedented capabilities of the LOFT instruments.

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