

Reveal the nature of IGR J17586-2129

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In the last several decades, INTEGRAL satellite has been playing an important role in observing the high-energy sky. However, the nature of the faintest sources detected by INTEGRAL are considered to be mostly uncertain and multi-wavelength follow-up observations are generally needed to classify these sources. As part of this global effort, we have carried out a deep XMM observation to probe the nature of IGR J17586-2129. Our X-ray spectral and temporal analysis of this new observation reveal that the source could be a Symbiotic X-ray binary, a rare subclass of low-mass X-ray binaries in which matter is accreted via the winds of a cold giant companion onto a slowly rotating neutron star. In this talk, I will present our results, and summarized what is now known about IGR J17586-2129.