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### Swift/XRT detection of the very faint X-ray binary transient IGR J17285-2922

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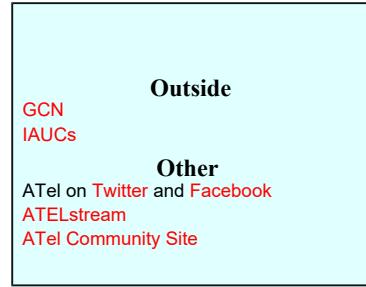
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## Swift/XRT detection of the very faint X-ray binary transient IGR J17285-2922

ATel #12651; **M. Armas Padilla (IAC-Tenerife), J. van den Eijnden, N. Degenaar and R. Wijnands (UvA)**

on 11 Apr 2019; 16:28 UT

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Subjects: X-ray, Black Hole, Neutron Star, Transient

Referred to by ATel #: [12669](#)

Following the recent detection with INTEGRAL/IBIS-ISCRI of the very faint X-ray binary IGR J17285-2922 (ATel #[12646](#)), we report on a ~1 ks Swift/XRT observation taken on April 10<sup>th</sup> 2019. The source is clearly detected with a net count rate of 1.11+/-0.04 counts/s (Window Timing mode), confirming the outburst activity.

The source spectrum is well described by a power-law model with a photon index of 1.4+/-0.2. It is affected by absorption with an equivalent hydrogen column of 0.6+/-0.2 x10<sup>22</sup> cm<sup>-2</sup>, in agreement with the value reported for the previous 2010 outburst (Sidoli et al. 2011, MNRAS, 415, 2373). The resulting unabsorbed X-ray flux (0.3-10 keV) is  $\sim(2.2+/-0.1)\times10^{-10}$  erg cm<sup>-2</sup> s<sup>-1</sup>, which corresponds to an X-ray luminosity of  $1.7\times10^{36}$  erg s<sup>-1</sup>, assuming a distance of 8 kpc. The source is 3 times fainter with respect to the peak flux of the 2010 outburst, when the 0.3-10 keV unabsorbed X-ray flux was  $\sim(6.1+/-0.1)\times10^{-10}$  erg cm<sup>-2</sup> s<sup>-1</sup> (ATel #[2824](#)).

We are grateful to the Swift team for their fast and efficient response to our ToO request. Continued Swift X-ray and VLA radio monitoring of the outburst is planned. Additional multi-wavelength monitoring is encouraged.

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