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The *XMM–Newton* survey of the Small Magellanic Cloud: XMMU J005011.2–730026 = SXP 214, a Be/X-ray binary pulsar[†]

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Article first published online: 28 APR 2011

DOI: 10.1111/j.1365-2966.2011.18626.x

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Issue



Monthly Notices of the Royal Astronomical Society

Volume 414, Issue 4, pages 3281–3287, July 2011

Additional Information

How to Cite

Coe, M. J., Haberl, F., Sturm, R., Pietsch, W., Townsend, L. J., Bartlett, E. S., Filipovic, M., Udalski, A., Corbet, R. H. D., Tiengo, A., Ehle, M., Payne, J. L. and Burton, D. (2011), The *XMM–Newton* survey of the Small Magellanic Cloud: XMMU J005011.2–730026 = SXP 214, a Be/X-ray binary pulsar. *Monthly Notices of the Royal Astronomical Society*, 414: 3281–3287. doi: 10.1111/j.1365-2966.2011.18626.x

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* Based on observations with *XMM–Newton*, an ESA Science Mission with instruments and contributions directly funded by ESA Member states and the USA (NASA).

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Publication History

1. Issue published online: 1 JUL 2011
2. Article first published online: 28 APR 2011
3. Accepted 2011 March 1. Received 2011 February 18; in original form 2011 January 13

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Keywords:

stars: neutron; X-rays: binaries

ABSTRACT

In the course of the *XMM–Newton* survey of the Small Magellanic Cloud, a region to the east of the emission nebula N19 was observed in 2009 November. To search for new candidates for high-mass X-ray binaries, the EPIC-pn and EPIC-MOS data of the detected point sources were investigated and their spectral and temporal characteristics identified. A new transient (XMMU J005011.2–730026 = SXP 214) with a pulse period of 214.05 s was discovered; the source had a hard X-ray spectrum with a power-law index of ~ 0.65 . The accurate X-ray source location permits the identification of the X-ray source with an ~ 15 th magnitude Be star, thereby confirming this system as a new Be/X-ray binary.

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