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Characterising new Be/X-ray binaries in the Large Magellanic Cloud

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Abstract content
 (Max 300 words)
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From the XMM-Newton X-ray survey of the Large Magellanic Cloud, 30 high mass X-ray binary (HMXB) candidates were identified. The work presented here identifies and characterises new Be/X-ray binaries (BeXBs) from this list of candidates through the nature of their optical counterparts. SALT Halpha; spectra were obtained for 19 of the candidates. From the observations, 13 of the candidates exhibited Halpha; emission, classifying them as Be/X-ray binaries. Additionally, power spectra of 11 OGLE light curves were produced in search of orbital periods of the newly discovered BeXBs.

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