



Contribution ID: 310

Type: Oral Presentation

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

Thursday, 7 July 2016 11:30 (20 minutes)

Abstract content (Max 300 words) **Formatting & Special chars**

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.

Apply to be considered for a student award (Yes / No)?

Yes

Level for award (Hons, MSc, PhD, N/A)?

PhD

Main supervisor (name and email) and his / her institution

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Session Classification: Astrophysics (1)

Track Classification: Track D1 - Astrophysics