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Kozai-Lidov mechanism in LS I +61 303?

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Abstract content (Max 300 words) Formatting & Special chars

Gamma-ray binaries are rare and intriguing members of the high mass X-ray binary population which exhibit emission across the entire electromagnetic spectrum (i.e. from radio to very high energy gamma-rays), which is typically modulated on the orbital period. These systems comprise a massive star and a compact object of unknown nature in an eccentric orbit. To date, only five of these systems have been confirmed: PSR B1259-63, HESS J0632+057, LS 5039, 1FGL J1018.6-5856 and LS I +61 303. In this talk I will present optical spectroscopic results of LS I +61 303 to show the Be disc variability and how that is used to study observational signatures of the Kozai-Lidov mechanism in this system.

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

Dr. Vanessa McBride

Would you like to submit a short paper for the Conference Proceedings (Yes / No)?

No

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No

Primary author: Mr MONAGENG, Itumeleng (SAAO/UCT)

Presenter: Mr MONAGENG, Itumeleng (SAAO/UCT)

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