SAIP2016



Contribution ID: 55

Type: Oral Presentation

Correlation study of multi-wavelength transient emission of selected CRTS cataclysmic variables

Thursday, 7 July 2016 09:40 (20 minutes)

Abstract content
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The Catalina Real Time Survey (CRTS) is aimed at mapping the sky for near-Earth objects like asteroids, and provides a detailed survey that includes extremely faint sources up to 20 magnitudes. The CRTS is an incredibly rich source of data, as a large number of these sources may not be included in earlier catalogues that did not go as deep in magnitude. A sample of cataclysmic variable systems, showing high levels of transient emission, have been identified in the CRTS. It involved the identification of rapidly varying transient sources that have the potential to be selected for intensive multi-wavelength follow-up studies. These follow-up studies will be aimed at better understanding the possible magnetohydrodynamic processes driving thermal and non-thermal transient phenomena in several disc-fed and disc-less cataclysmic variable sources. Further optical observations will include photometric observations with the UFS/Boyden 1.5-m telescope at the Boyden observatory, and spectroscopic observations with the SAAO 1.9-m telescope, located at the South African Astronomical Observatory (SAAO).

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Session Classification: Astrophysics (2)

Track Classification: Track D1 - Astrophysics