
Miloš Popović

Posmatranje promenljive zvezde RR Lyrae

Posmatrana je promenljiva zvezda RR Lyrae i izvršena je procena njene udaljenosti (237.68 pc). Određena je njena prividna magnituda i izvršena korekcija perioda. Na osnovu već poznate apsolutne magnituda za RR Lyrae koja iznosi $M_v = 0.78^m$ procenjena je udaljenost. Snimanje je obavljeno u dva filtera. Fotometrijskom metodom, dobijena je kriva sjaja pulsirajuće promenljive zvezde RR Lyrae. Procenjena je minimalna temperatura (Min T = 8188 K) i maksimalna temperatura (Max T = 15818 K) zvezde, a na osnovu temperature promena spektralne klase (B6 – A5).

Observation of RR Lyrae Variable Star

RR Lyrae variable star was observed and an estimation of its distance was made. The apparent magnitude and the correction of period was made. Based on the known absolute magnitude of RR Lyrae, which is $M_v = 0.78^m$, its distance was estimated. Imaging was done in two filters. Using the photometric method the light curve of the pulsating variable star was obtained. Minimal (min T = 8188 K) and maximal (max T = 15818 K) temperature of the star was estimated, and based on temperature the variation of spectral class was estimated (B6-A5).



Miloš Popović (1990), Paraćin, Bore Stankovića 17, učenik 4. razreda Gimnazije u Paraćinu