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PHOTOMETRY OF RW Tri SIMULTANEOUSLY IN TWO COLORS

Photoelectric observations of RW Tri were made on the night of November 16, 1976 with the Pennsylvania State University 60 inch reflector, simultaneously with Johnson and Morgan yellow and blue filters. The apparent magnitude of the system in yellow and the difference in blue and yellow are given in the Figure for about 1.15 cycles. From observations of Walker (1963) the system is judged to be in its faint, quiescent state.

Noteworthy features include a total eclipse with duration of about nine minutes and a system reddening at primary of about $0^m.8$. This property has not been observed before in RW Tri or other nova associated systems such as DQ Her and UX UMa.

From observations of RW Tri on November 15 and 16, 1976 the period was found to be $5^h33^m.5$, the same as determined by Walker. Since the system may not eclipse centrally, consideration of external and internal contact times indicate k is near the value of but more than 0.62. This is also consistent with the results obtained from analyzing the more normal, descending branch with the ψ^{OC} functions of Merrill (1950) for 0.6 limb darkening.

No readily recognizable secondary minimum has been observed yet for RW Tri. The decrease in brightness around phase 0.5 in the displayed light curve requires qualification before it can be designated as a secondary.

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References:

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