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MINIMUM TIMING OF RZ Cas

Primary minimum of the eclipsing binary RZ Cas was observed through H α N and H α W filters, during 3 nights 17, 23, and 29 December 1984, using the 20" cassegrain telescope of Biruni Observatory and an RCA4509 phototube.

The variable star was observed against BD+67^o215, and BD+69^o171 was used as the check star. Differential observations were corrected for extinction, and the H α W light curve is shown in the Figure. Phases were calculated according to the ephemeris (Parenago, 1952):

$$\text{HJD } 2417355.4233 + 1.1952519 \text{ E}$$

Time of minimum was found to be 2446028.2601 by fitting a parabola to the observations within 0.05 phase of the primary minimum. An O-C of -0.0610 days was added to the calculated JDs to bring the primary minimum to the zero phase. This O-C together with the minimum given by Parenago suggest a period of 1.1952494 days.

As reported by other observers, an approximately flat bottom with a duration of about 15 minutes exists.

Results for H α N are not offered, because of large scattering of data, and low precision of results.

N. RIAZI, S. NASIRI, and M.R. AHMADY
Biruni Observatory
Physics Department
Shiraz University
Shiraz, Iran

Reference:

Parenago, P.P., 1952, Variable Stars 9, 125.

