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PHOTOELECTRIC OBSERVATIONS OF THE ECLIPSING VARIABLE

Z VULPECULAE

Photoelectric observations of Z Vulpeculae in blue and yellow colours were carried out with the 8-inch refractor at the Education Centre of Kanagawa Prefecture (longitude= $9^{\text{h}}17^{\text{m}}55^{\text{s}}.3$, latitude= $+35^{\circ}21'23''.2$) during forty-eight nights from July 8 to December 18, 1971. The photometer was furnished with a 1P21 photomultiplier tube and two colour filters (Schott BG12+GG13 for blue and Schott GG41 for yellow). BD+25^o3802 was used as the comparison star throughout the course of these observations. This comparison star was the same one as previously used by Broglia (1964, Jd.Obs. 47, 100).

As the variable star and the comparison star have close positions and similar colours, there is little concern about making any correction for differential extinction. Thus, all the observations given in $\Delta m = m_{\text{var}} - m_{\text{comp}}$ are individually plotted in the following figure.

Our observations cover the primary minimum once with the observed epoch JD 2441170.1053, which gives $+0^{\text{d}}.0070 \pm 0^{\text{d}}.0014$ (p.e.) for the O-C residual from Dugan and Wright's ephemeris (1939, Princeton Contr. 19, 55).

The observations were made under the guidance of Prof. M. Kitamura of Tokyo Astronomical Observatory, to whom we wish to express our hearty thanks.

