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NEW SPECTROSCOPIC ELEMENTS OF BETA AURIGAE

From 17 grating spectra, dispersion 34 Å/mm secured at Merate during the last two years, we have redetermined the spectroscopic elements of the eclipsing binary Beta Aurigae = HD 40183. The "Finding List for Observers of Eclipsing Binaries"¹⁾ has recommended a new radial velocity study for this star. Spectra of both components are visible. The last radial velocity curve is of 1948.²⁾ The following elements have been obtained by us:

$$\begin{aligned} T &= -22.45 \pm 1.42 & e &= 0.00 \\ P &= 3.6800421^{+1} & \gamma &= 2438102.197 \\ \log g &= 3.485 \pm 0.4 & \log W &= 0.781 \pm 0.02 \\ \lambda &= 100.35 \pm 2.61 & \lambda &= 102.30 \pm 2.62 \end{aligned}$$

A more detailed paper will soon be printed in the "Memorie della Società Astronomica Italiana".

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¹⁾ Koch, Sobieski, Wood; "Finding List for Observers of Eclipsing Binaries", University of Pennsylvania, Vol. IX, 1963

²⁾ Burke Smith, Ap. J., 108, 364, 1948.