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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 46183. The "Finding List for Observers of Eclipsing Binaries"<sup>1)</sup> has recommended a new radial velocity study for this star. Spectra of both components are visible. The last radial velocity curve is of 1948.<sup>2)</sup> The following elements have been obtained by us:

$$\begin{aligned} T &= -22.45 \pm 1.42 & e &= 0.00 \\ P &= 3.1600421^{+1} & C &= 2439162.197 \\ \log g_1 &= 3.443 \pm 0.4 & \log g_2 &= 3.181 \pm 0.2 \\ V_1 &= 100.3 \pm 2.61 & V_2 &= 102.50 \pm 2.62 \end{aligned}$$

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

P. GALEOTTI      G. GUERRERO  
Osservatorio Astronomico di Merate

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

<sup>2)</sup> Burke Smith, Ap. J., 108, 564, 1948.