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MOMENTS OF MINIMA OF AK Her

The light of the eclipsing binary star AK Her is measured from photographs made by the "Sky Service," Astronomical Observatory, Odessa University within 1952 through 1978. The total number of photographic and photovisual light measurements obtained amounts to 248 and 579, respectively.

From all this observational material separately on photometric systems of observations 25 moments of primary and secondary minima have been determined. The photometric elements (T. Herczeg, Bonn. Veröf., 63, 1962) used are

$$\text{Min. hel. J.D.} = 2436025.4730 + 0^{\text{d}}.42152421 \cdot E.$$

The results of determinations of moments of minimum with indexing the minimum-type as well as E and (O-C) with respect to the elements above are summarized in the Table.

| Min. hel. J.D. | * | E | O-C |
|----------------|-------|-------|--------|
| 2434866.273 | I pg | -2750 | -0.008 |
| .486 | II pg | .5 | -0.006 |
| 36545.211 | I pv | +1233 | -0.001 |
| .414 | II pv | .5 | -0.009 |
| 36570.502 | I pg | +1293 | -0.002 |
| .713 | II pg | .5 | -0.002 |
| 36908.565 | I pv | +2095 | -0.001 |
| .765 | II pv | .5 | -0.012 |
| 37128.176 | I pv | +2616 | -0.004 |
| .386 | II pv | .5 | -0.006 |
| 37612.513 | I pv | +3765 | +0.001 |
| .722 | II pv | .5 | -0.001 |
| 37858.684 | I pg | +4349 | +0.002 |
| .893 | II pg | .5 | 0.000 |
| 38049.635 | I pv | +4802 | +0.002 |
| .843 | II pv | .5 | 0.000 |
| 38897.733 | I pv | +6814 | -0.006 |
| .942 | II pv | .5 | -0.008 |
| 40017.724 | I pv | +9471 | -0.005 |

Table (cont.)

| Min.hel.J.D. | * | E | O-C |
|--------------|-------|--------|--------|
| 2440581.316 | I pv | +10808 | +0.009 |
| .506 | II pv | .5 | -0.011 |
| 41109.475 | I pv | +12061 | -0.002 |
| .688 | II pv | .5 | 0.000 |
| 42220.195 | I pv | +14696 | +0.002 |
| .388 | II pv | .5 | -0.015 |

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