

# THE LIGHT VARIATION AND THE ORBITAL ELEMENTS OF AM LEONIS = ADS 8024 A

L. BINNENDIJK

*Dept. of Astronomy, University of Pennsylvania, Philadelphia, Pa., U.S.A.*

**Abstract.** The star was followed photoelectrically in two colors through five consecutive nights in 1968 at Kitt Peak National Observatory. The light of the fainter visual component (a physical companion) was excluded. At primary minimum the system undergoes a total eclipse lasting 25 min. New internally consistent elements have been derived. A subluminous region on the larger star can be located. The previous light curve by Abrami leads to the same geometrical elements but to different photometric elements even when freed from the light of the distant companion.

The paper appeared in *Astron. J.* **74**, 1031 (1969).

## Discussion

Replying to *Strand*, *Binnendijk* says that Eggen's determination of  $A_m$  of the visual pair was made near maximum light of the variable component, and that his own measurement confirms the result of Eggen but not that of Abrami.