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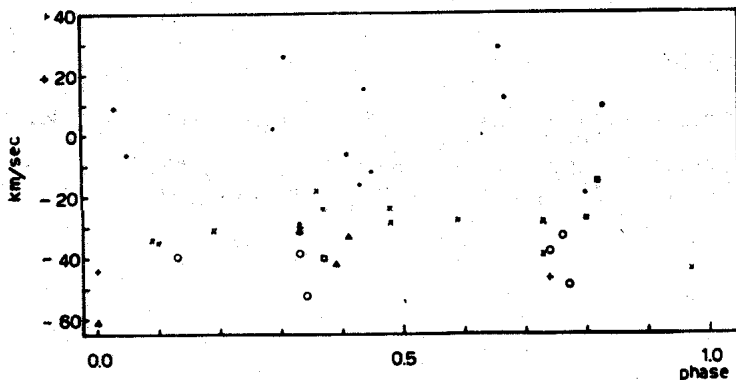
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SPECTROGRAPHIC OBSERVATIONS OF THE VARIABLE STAR
OMICRON ANDROMEDAE

In 1961 we have begun spectrographic observations (Pasinetti 1967, 1968) of Omicron Andromedae, considered by some AA. a photometric double star showing, sometimes, a shell spectrum.

We have measured the radial velocities of this star from forty plates secured in the period 1961-1966 in which it has been a normal B-type star.



A velocity curve characteristic of the eclipsing variables does not result from our measures. The velocities deduced from the first Balmer lines (before H γ) range from -20 to -50 km/sec in the years later than 1961; this dispersion is probably real being greater than the mean square errors. Instead in 1961, the velocities are much higher owing to the presence of strong cores altering the velocities. In the figure our results for the first Balmer lines are plotted against the phases according to the data of Schmidt (1959); each symbol indicating a different year: . 1961, x 1962, Δ 1963, + 1964, \square 1965, o 1966.

The values of the other elements are sometimes much higher than those of hydrogen; the most velocities from Si are positive. However these results are rather uncertain as there are few measurable lines and they are very broadened.

PIERO GALEOTTI - LAURA E. PASINETTI
Osservatorio Astronomico di Merate

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