

ABSTRACTS

Meteors

The Perseids in 1983 /p.8./

Last year the MMTEH collected nearly 4000 data of the Perseid stream. Fig.1. on p.8. gives the number of registered meteors, while fig.2. shows the ZHR values. Fig.3. gives for the nights around maximum the ZHR values and the ratio of Perseids to sporadic meteors. On Fig.4. one can see marks at the moment of the registration of meteors. The position of the radiant was computed for different nights and for different observing groups, the results are summarized on pp. 14-15. The most important results are the following: the radiant of the stream is double, the position of the main radiant is marked by a triangle, the secondary by circles on Fig.5. We proved the motion of the radiant, according to the table on p.15. it takes about 1° /day. The secondary radiant moves with the same speed.

Variable Stars

• The activity of the PVH in 1983 /p.22./

69 observers of the Pleione Network, listed on p.22., carried out 18019 observations in 1983. 39% of this amount was made by foreign observers. Most of the observed stars are of mira and eruptive types. Besides visual estimates, there were some photographic oservations, too. Last year we published 126 pages in Meteor and 32 pages in PVH Circulars. We are in connection with the AAVSO and AFOEV.

• VZ Cas /p.28./

The variability of VZ Cas was observed by Balanovsky in 1918. The period of this mira type variable is about 170 days, its amplitude is between $9\frac{1}{3}$ - $13\frac{5}{5}$. It is observed by Hungarian amateurs since 1973, but regular observations are available only since 1976. On p.28 we give the light curve for the time interval 1977 - 1983, based on PVH, AFOEV and SUAA data. According to our observations the period is 168.42 days. On p.29. we give the observed minima and maxima, and a curve magnitude vs phase.

• U Mon 1980 - 83 /p.30/

During this interval about 600 data were collected by PVH on U Mon. The average length of the period is 91.7 day. The maximal brightness decreases, it was in 1980 $5\frac{1}{5}$, in 1981 $5\frac{7}{7}$, in 1982 $5\frac{9}{9}$, at the end of 1983 only $6\frac{1}{1}$.