# Practical round

**7.** Write the observational program for this night on a 40-cm telescope.
What stars would you observe this nigth? Write sequence of the observations.
Stars to observe:

| | | V (mag) | a | d (1950) |
|---|---|---|---|---|
| 1 | **h Aql** | $3^m.5$ | $19^h$ $49^m.9$ | 0° 53' |
| 2 | **b Per** | 2.1 | 3 04.9 | 40 46 |
| 3 | **c Cyg** | 14.2 | 19 48.6 | 32 47 |
| 4 | R Aqr | 12.4 | 23 41.2 | −15 34 |
| 5 | **a Ori** | 1.3 | 5 52.4 | 7 24 |
| 6 | RW Vir | 6.7 | 12 04.7 | −6 29 |

Moon rise: 21:17:26, phase 0.77

Sideral time for $0^h$ $s_0 = 0{:}31{:}04$

You may use all observational time (since 20h till 5h 30 min).
Local time LT=UT+3
Coordinates of observatory $\lambda = 2^h16^m$ $\varphi = 44°43'$
Put your result into the table:

| Star | Interval of observation |
|---|---|
| | |
| | |

Stars that could not be included in the program:
Explanations and notes:

**8.** A ligth curve of eclipsing binary is shown in the figure. Estimate the ratio of R/r in assuming that the eclipse is central and the small component is fainter.