

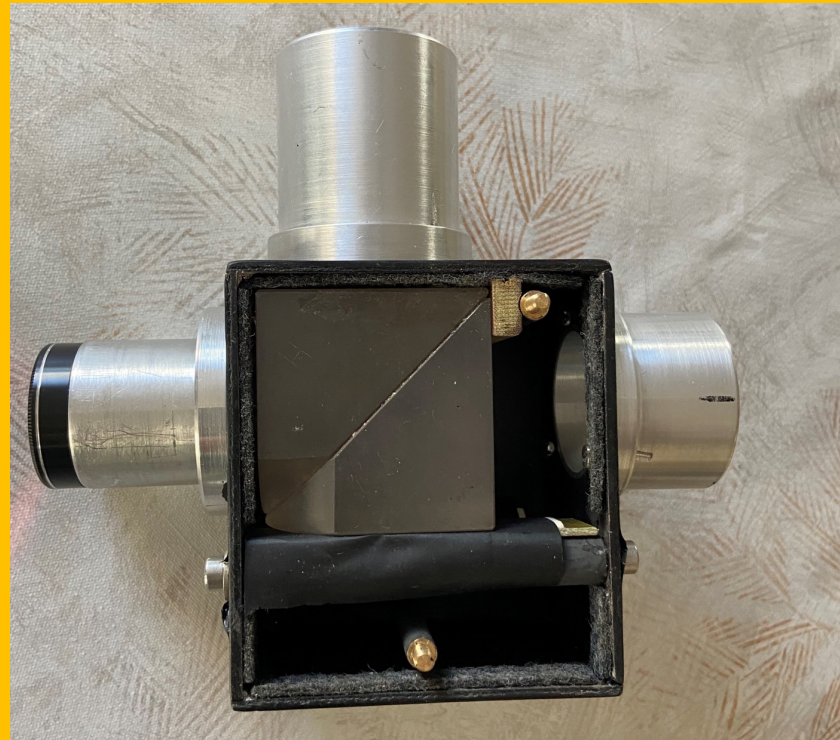
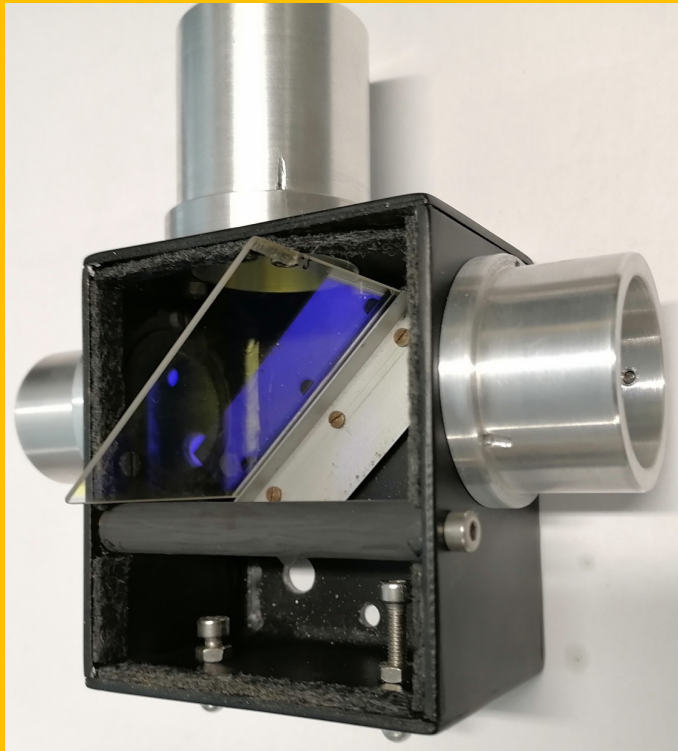
Konrad Guhl (IOTA/ES)

Planned Observation of the occultation of Betelgeuze by (319) Leona

Goal: high speed photometry in defined wavelength

Split the light in two colours

How to split?



20/80

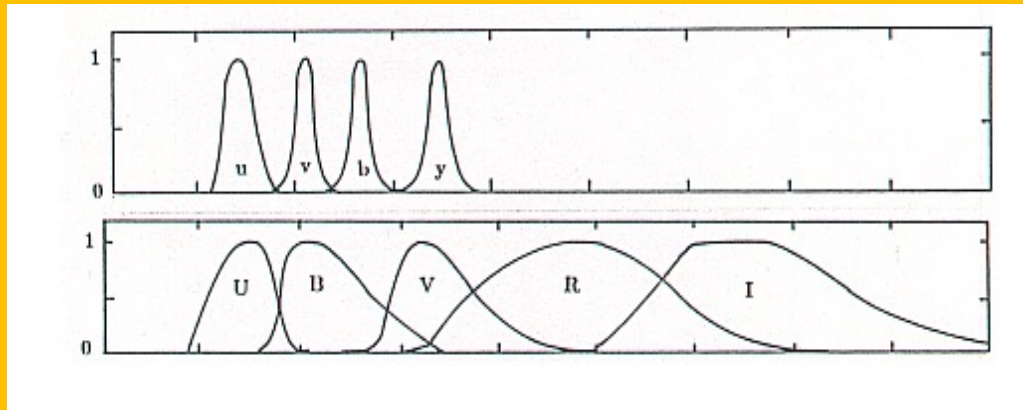
Goal: high speed photometry in defined wavelenght

Split the light in two colours

How to measure?

→ 2 x QHY 174 camera + computer, SW sharpcap

defined wavelenth

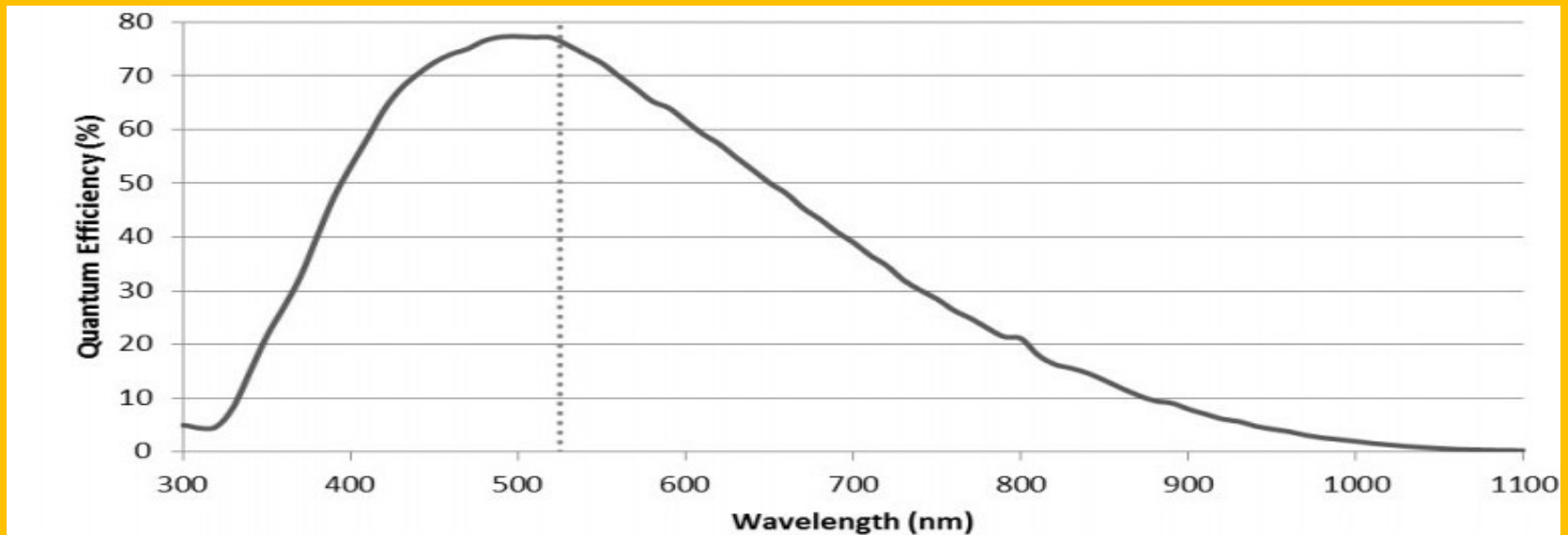


Strömgren, 1966

Johnson and Morgan
1953

select $U(u)$ and $Y(y)$, 365nm and 550nm

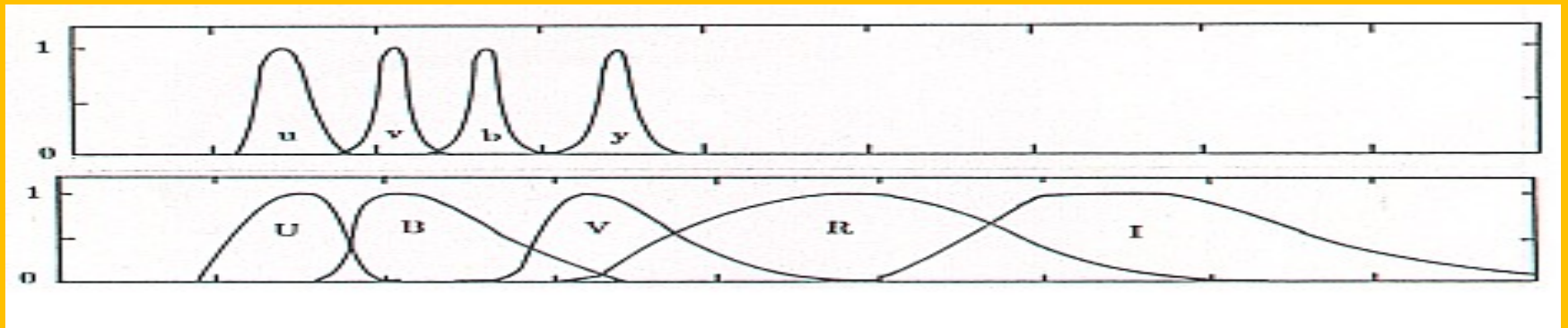
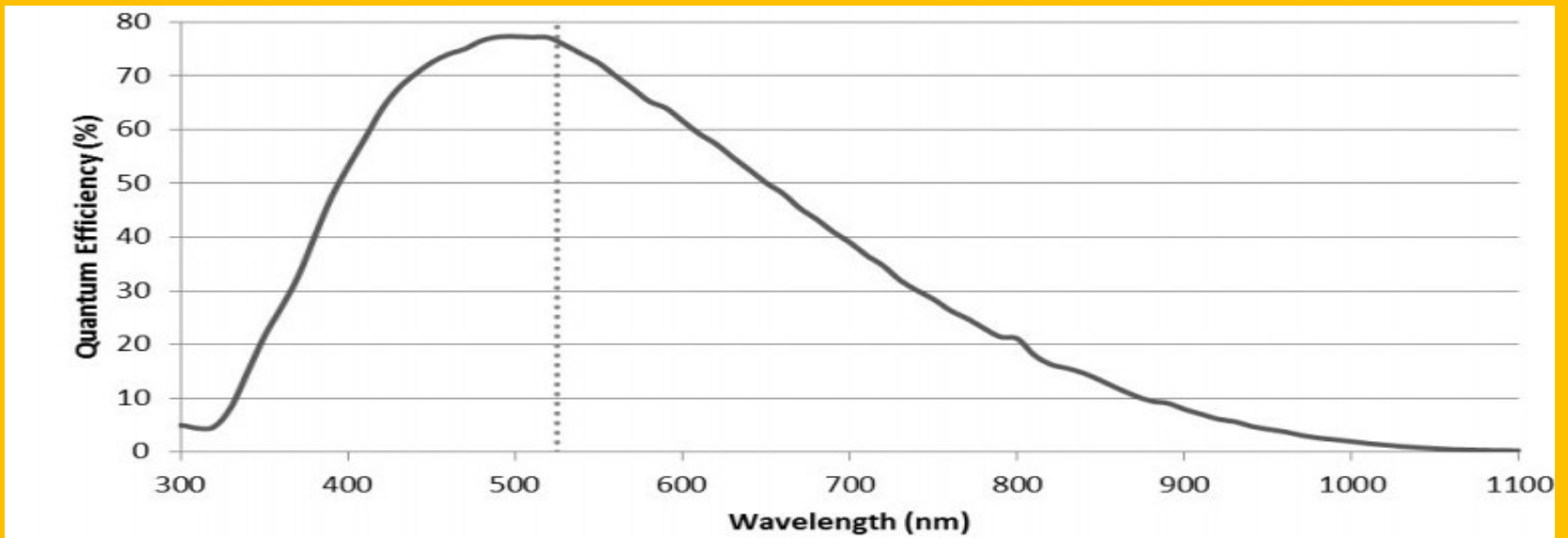
Sony IMX 174 (QHY174) in the colour ranges



U → 365 nm

y → 550 nm

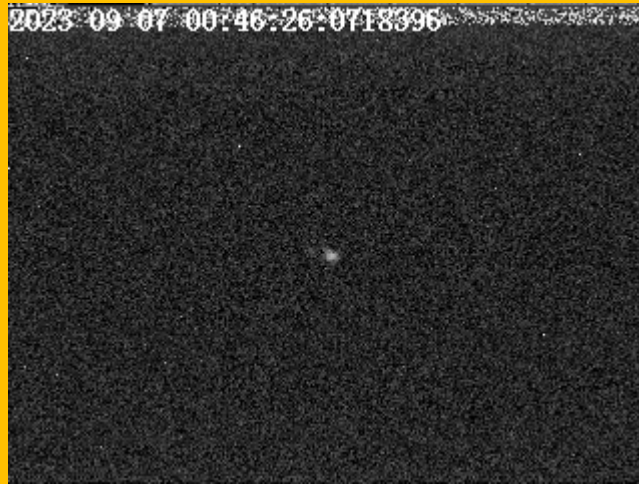
80% for U-Kamera, 20% for y-Kamera



not so much signal in U-band !

Tests QHY 174 on 12" telescope

U \rightarrow 365 nm



250 ms, binning 2
Gain max (437)

y \rightarrow 550 nm



200 ms, binning 2
Gain max (437)

We see in U-Band the signal is poor....

we will use the light collector M2



Guhl ESOP 2023 planned observation

Konrad Guhl (IOTA/ES)

...thank you!