

REFRACTING TELESCOPE

You need to be able to draw the diagram from scratch. 2 lenses separated by the sum of their focal lengths. 3 parallel but non-axial rays.

"normal adjustment" - maximum magnification, virtual image formed at infinity



Angular Magnification

$$\text{Ang. Mag.} = \frac{\text{angle with telescope}}{\text{angle with unaided eye}} = \frac{f_o}{f_e}$$

A student has 2 lenses of focal lengths 100cm and 5cm. How would they build a telescope in normal adjustment and what angular magnification would it produce?

Separation = 105 cm. 5cm lens as eyepiece, $100/5 = \times 20$ mag

REFLECTING TELESCOPES

You need to be able to draw the Cassegrain arrangement. Concave (parabolic) primary mirror and convex secondary mirror, rays crossing at a hole in the primary mirror and then pass through an eyepiece lens



CHROMATIC AND SPHERICAL ABERRATION

Chromatic aberration is caused by the different refractive index of glass to different wavelengths of light (i.e. dispersion) so only affects refracting telescopes.

Spherical aberration is caused when the lens/mirror bends out of shape. Lenses are heavy and can't be supported, so this affects both devices, but is much easier to solve for reflecting telescopes

Astrophysics Knowledge Organiser

SINGLE DISH TELESCOPES (Radio, IR, UV, X-RAY)

DESIGN: Radio telescopes - one primary mirror - detector placed at focus (since they have to be large and not much signal is blocked)

POSITIONING: Radio telescopes on Earth, but away from population centres due to pollution from human activities such as mobile phone networks.

IR, UV and X-Ray - high on mountains or in space as atmosphere (water and some in particular) absorbs most of IR and UV. X-Ray also absorbed by atmosphere, so have to be placed in space.

COLLECTING AND RESOLVING POWERS: See below, but in general bigger is better for both as collecting power is proportional to area and resolving power to diameter. Radio waves have low energies therefore need a big area to collect sufficient energy.

ANGULAR RESOLUTION

When light enters a telescope (or eye) it is diffracted. So the image produced is actually the diffraction pattern or "Airy Disc"



In order for two stars to be resolved, there must be a dip in brightness between them, so the smallest separation is when the first maximum of one star overlaps with the central maximum of the other star. This is called the **Rayleigh Criterion**

So for two objects to be resolvable their angular separation must be at least

$$\theta = \lambda/D$$

Two radio sources have an angular separation of 1.0×10^{-4} rad. They are observed using a 1.50 cm wave is observed by the Lovell Telescope with a diameter of 76m. Are they resolvable?

$$\theta = \lambda/D = 1.5 \times 10^{-2} / 76 = 1.97 \times 10^{-4} \text{ rad}$$

The minimum angular resolution is greater than the angular separation so they cannot be resolved.

COLLECTING POWER

Collecting power (i.e. the energy trapped per second) will depend on the area of the primary lens/mirror. So is proportional to the diameter squared.

CCDs

Modern telescopes use Charge Coupled Devices (CCDs) as detectors. You need to be able to compare CCDs with the eye. QUANTUM EFFICIENCY - The fraction of photons causing an effect for CCDs 70%+, for the eye about 1%.

CONVENIENCE - CCDs produce an image which can be recorded and computer processed, also don't have to wait for biological adjustments to light levels. Massively bigger range of sensitivity.

RESOLUTION - Size of pixels on CCD is similar to eye, so there is no significant advantage in terms of resolution.

CLASSIFICATION OF STARS

Stars were first classified by their brightness (or visible output judged by an observer) by Hipparchus. He classified stars on a 6 point scale from brightest 1 to dimmest 6. This is called the **apparent magnitude** (m). We can measure this now and we know that the brightest stars (as viewed with the unaided eye from Earth) are 100 times brighter than the dimmest. So each step on the scale is a factor of $2.51 (100^{1/5})$ times brighter, so a magnitude 4 star is 2.51 times brighter than a magnitude 5 star.

The stars Alcor (apparent magnitude 1.76) and Mizar ($m = 2.46$) are both in the constellation Ursa Major. Which star appears brighter, how many times brighter is it?

Alcor is brighter as it has the lower number of apparent magnitude

$$3 = 2.51^{(2.46 - 1.76)} = 1.87 \text{ times as bright}$$

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