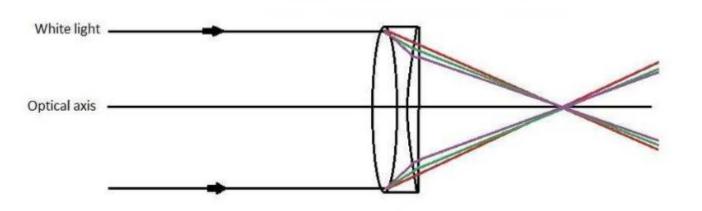
OPTICS TRADE

Apochromat Telescopes

GENERAL FEATURES

- •An apochromatic telescope features an **apochromatic lens > better** correction for **chromatic aberration** than achromat lens
- Better quality image → noticeable when observing very bright celestial objects, such as Moon and Venus
- Like all refracting telescopes, apochromat is a great telescope for observing stars and planets
- •It is also a great telescope for beginners in astrophotography

APOCHROMAT LENS



- •The **achromat lens** brings only blue and red light to the center on the same plane.
- •The <u>apochromat lens</u>, on the other hand, corrects <u>all</u> wavelengths to focus on the same point (red, blue, and green).

An apochromat lens consists of three different types of glass:

- •two crown glasses,
- •and one flint glass.



- •The glasses are **cemented** together or have an **air-gap** between them, or a combination of both
- •Because of a higher number of glass elements, other defects such as **coma** and spherical aberration also have better **correction**.
- •Apochromatic telescopes are **more expensive** than achromatic telescopes. The apochromatic telescope can become very pricey if the user wishes to have a **larger aperture**



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