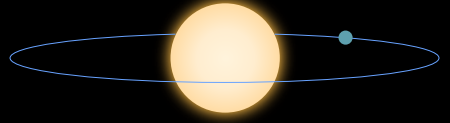


Exoplanet Transits & Eclipses

Telescopes see an exoplanetary system as a fuzzy spot of light.

Total Light =

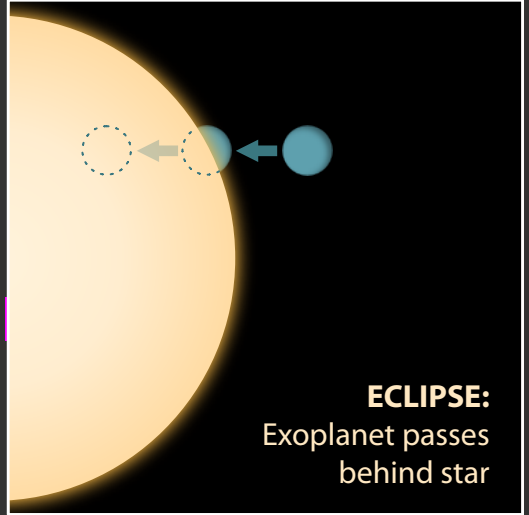
The brightness of the spot includes the combined light from the star and its exoplanets.



Star Light + Exoplanet Light

TRANSIT:

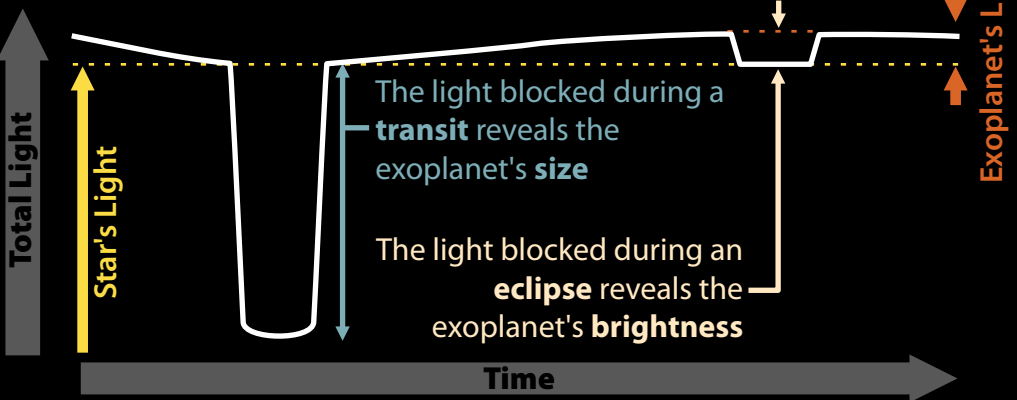
Exoplanet passes in front of star



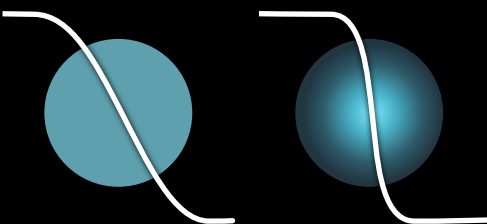
ECLIPSE:

Exoplanet passes behind star

By watching how the total brightness of a system changes over time, astronomers can discover – and learn about – exoplanets.



How the brightness changes during an eclipse tells us about the exoplanet's general appearance.



Sensitive JWST eclipse observations of exoplanet **WASP-18 b** helped astronomers calculate a thermal map for its atmosphere.

