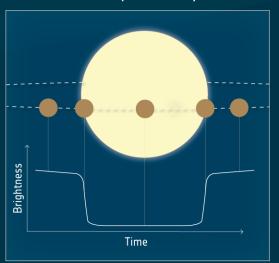


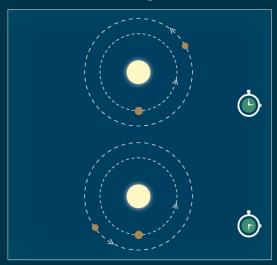
→ EXOPLANET DETECTION METHODS



Transit photometry



Transit-timing variation

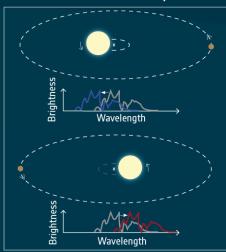


Transit photometry is one of the main techniques used to **discover** exoplanets. Cheops will use this technique to **measure the sizes** of known exoplanets and to start to **characterise** them.

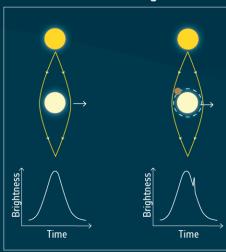
By using the **transit-timing variation** technique, Cheops will be able to **discover** additional, previously unknown planets around some stars, and also determine the planet **masses**.

Other techniques used to discover new exoplanets (not employed by Cheops) are: radial velocity, microlensing, astrometry and direct imaging.

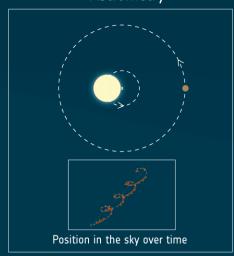
Radial velocity



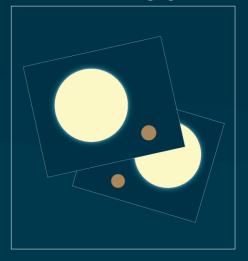
Microlensing



Astrometry



Direct imaging







- Architecture of planetary systems
- Planetary formation and evolution
- Interiors and atmospheres
- Habitability and the search for extraterrestral life

