

Search for Exoplanets

(project proposal)

Current State



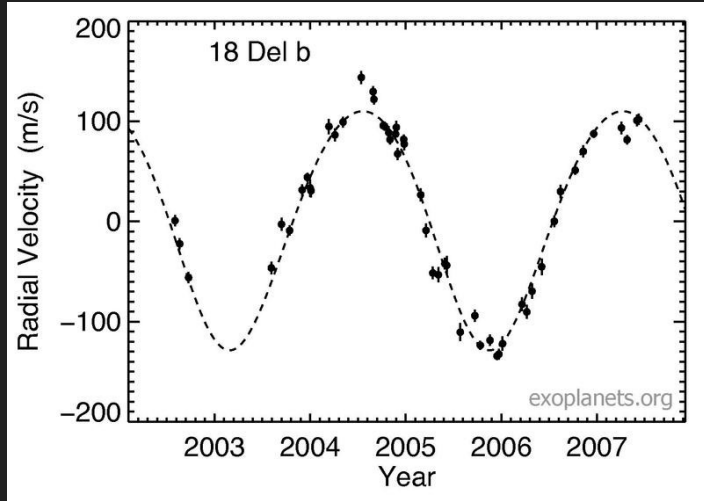
Kepler space observatory
(launched in 2009)

Transiting Exoplanet
Survey Satellite
(launched in April, 2018)



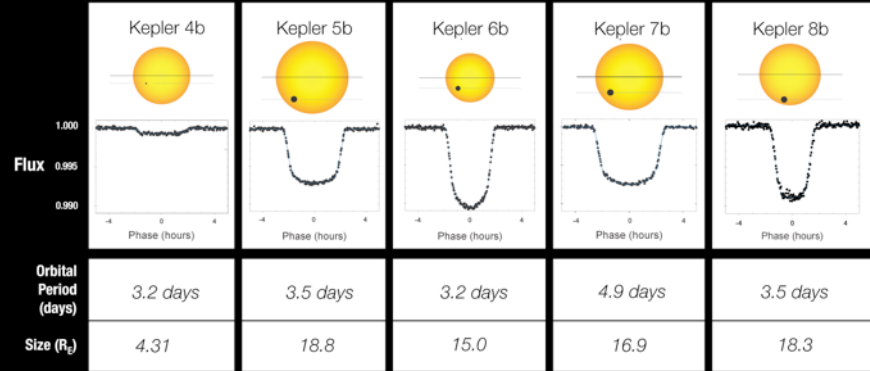
- 3,758 confirmed exoplanets in 2,808 systems, with 627 systems having more than one planet.
- expecting 20,000 new exoplanets in the next 2 years

Methods



Radial velocity

Transit Light Curves



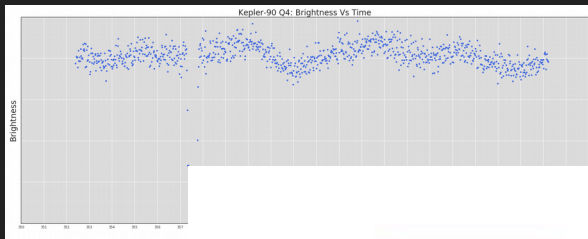
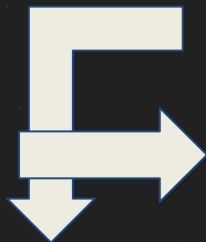
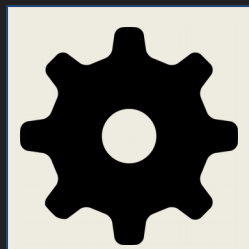
Transit photometry

Gravitation Microlensing



Gravitational microlensing

Model



raw light-curve data

