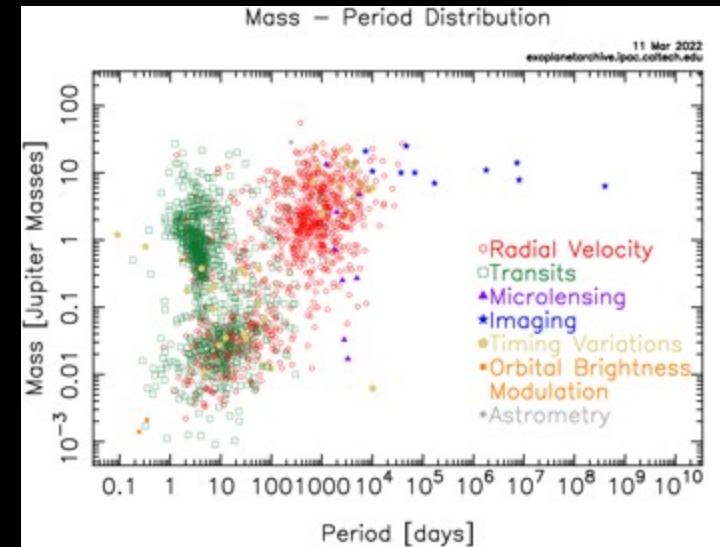
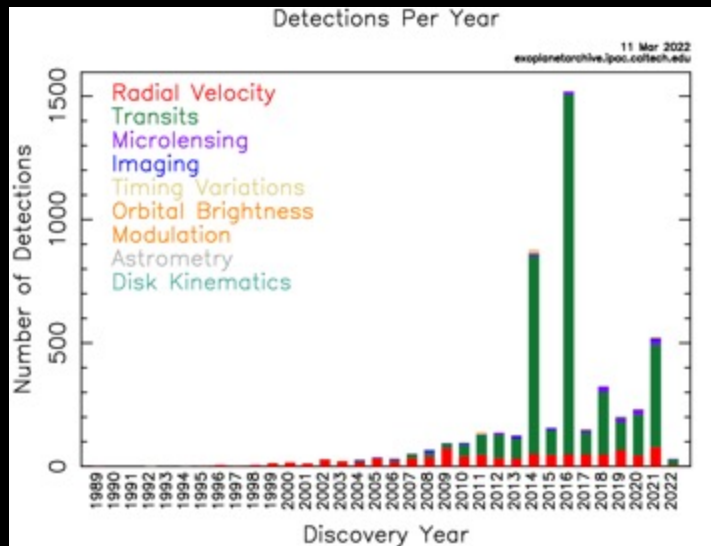




ASTRONOMY IN THE NEWS

#31 – A NEW PLANET AROUND THE
CLOSEST STAR

Radial Velocities for Detecting Exoplanets



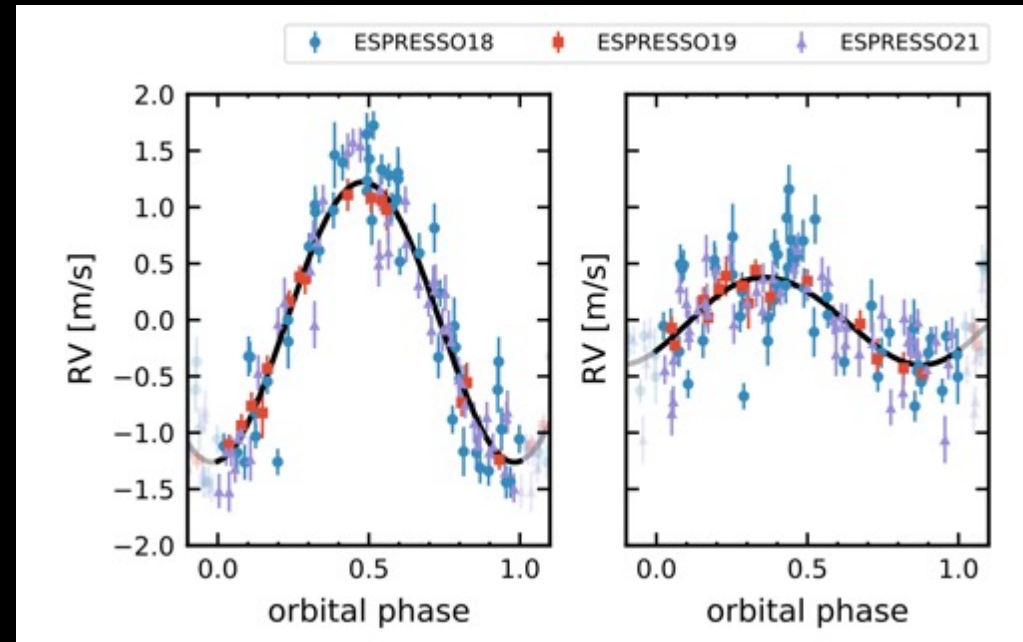
Credit: NASA



Proxima Centauri and its Planets



Credit: NASA/Penn State University



Credit: Faria et al. (2022)



Credit: HST/ESA

Calculating the mass of an exoplanet from radial velocities

The mass of an exoplanet can be calculated once you have information about the radius of the orbit and the mass of the star. Can you calculate the radial velocity variation and the mass of the exoplanet in the following example?

<https://www.rmg.co.uk/schools-communities/teacher-resources/mass-exoplanet-radial-velocity>