

Homework 1 : Exoplanet database

S. Sulis, D. Mary
sophia.sulis@oca.eu

Objective : Know how to use an extrasolar planets database

1 Exercice

- Connect to `exoplanet.eu`,
- Click on " All catalogs " and, with the help, answer to the following questions:
 1. How many planets have been detected ?
 2. Which detection method is the most prolific ?
 3. How many planets have been detected orbiting the same star ?
 4. How many planets with mass $<$ to 1 Jupiter mass have been discovered with the Kepler satellite?
- Now, click on "Diagrams " and :
 1. Plot the mass of the confirmed exoplanet detections in function of the year of discovery. What do you notice ? Why ?
 2. Plot the planetary mass in function of the period. Comment.
 3. Use the color bar to illustrate on this plot the stellar mass. Comment.