

# ASTR1010: Astronomy of the Solar System

## Chapter 13 Study Guide

Fall 2019

**Lectures:** Prof. Emmanouil Georgoulis

**Website:** <http://www.astro.gsu.edu/~georgmk1/Astro1010-Fall-2019/>

- Please make sure you have an understanding of the material in the Textbook
- Review the Chapter slides available in the course website
- Work on the practice questions, available after each lecture
- Work on the review questions, available after all practice lectures

The main concepts to consider in Chapter 13 are the following:

### **Chapter 13:**

- The challenges of detecting extrasolar planets.
- The astrometric, transit and Doppler detection techniques.
- What are the properties of extrasolar planets that can be detected with existing techniques?
- What are typical sizes of most extrasolar planets found so far and why?
- Do we need to revise current theories of solar system formation to understand findings in other stellar systems with planets?
- What is the habitable zone of stars – how does it change with the star's size?