



Astronomy Club, IITK

Summer Projects 2021



R.A.D.

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Week 1

24th – 31st May, 2021

Overview: In this week we will cover the basics but the essentials of Astronomy such as the celestial sphere, coordinate systems, time systems and the popular retrograde motion. Also, since we primarily obtain observational data in terms of the electromagnetic waves, its essential to know about the spectra, magnitude scales and color index. We will get acquainted to the common terminologies of Astronomy which would be helpful at later stages.

Readings: Following sections from *An Introduction to Modern Astrophysics* by Carroll and Ostlie:

- Chapter 1- The Celestial Sphere: All sections, that is 1.1 to 1.4. You may skip the math as it will not be necessary.
- Chapter 3- The Continuous Spectrum of Light: Only sections 3.1, 3.2 and 3.6. Do cover the math as its fairly simple.

Problems: To be notified soon™.