# Eclipsing Binaries – Kinematics and Detection

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PHYS 454 – Introduction to Astrophysics

## Abstract

Briefly Summarize binary star systems, the different types of binary star systems, the two-body problem with numerical solutions, and the various detection methods.

## Introduction

## The Two-Body Problem

## Types of Binary Star Systems

## References

1. [Spring 2024 PHYS454 CCNY (cuny.edu)](https://hedberg.ccnysites.cuny.edu/PHYS454/)
2. [Introduction to Binary Stars (csiro.au)](https://www.atnf.csiro.au/outreach/education/senior/astrophysics/binary_intro.html)
3. [Two-Body Numerical Solution in an Inertial Frame — Orbital Mechanics & Astrodynamics (orbital-mechanics.space)](https://orbital-mechanics.space/the-n-body-problem/two-body-inertial-numerical-solution.html)