

ASTRONOMY 3

Midterm 2

The Second Midterm will be on Wednesday, February 27 during the class hour from 12 – 1 Pm. The format of the exam is 40 multiple-choice questions. All questions have the same value and four possible answers, only one of which is correct. **Please bring a Number 2 pencil**. You will be provided with a Scantron Sheet, and you must hand-in both the **Exam** and the **Scantron sheet**. Be sure to fill out the requested Name, Signature, and Student ID Number on the Exam, and your printed full name at the top, **your name bubbled-in**, and your **student ID number bubbled-in** at the bottom of the **Scantron sheet** (the latter are required fields).

The Midterm will cover the material starting from the formation of stars and going through white dwarfs and novae. The Midterm will NOT cover supernovae and neutron stars

You should be familiar with the following:

- Understand the basic stages of star formation from the initial collapse of a knot within a giant molecular cloud, the first dynamical collapse, the second dynamical collapse, the Hayashi Phase, and final evolution onto the ZAMS. You will NOT need to know the time of specific events or the precise values of the star's temperature, radius, luminosity, etc., for the different formation phases.

(collapse?) STAGES OF STAR FORMATION



Stage 1 – giant molecular cloud

Stage 2 – first dynamical collapse

Stage 3/4 – second dynamical collapse (also protostar?)

Stage 5 – protostar

1. Giant molecular cloud

- Time scale: 2×10^6 years
- Event: giant molecular cloud fragments into solar mass-size clumps or cores

Astronomy 115 Midterm Study Guide

Wenbin Ji



Astronomy 115 Midterm Study Guide:

Powering Science National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Large Strategic NASA Science Missions: Science Value and Role in a Balanced Portfolio, 2018-01-29 NASA's Science Mission Directorate SMD currently operates over five dozen missions with approximately two dozen additional missions in development These missions span the scientific fields associated with SMD's four divisions Astrophysics Earth Science Heliophysics and Planetary Sciences Because a single mission can consist of multiple spacecraft NASA SMD is responsible for nearly 100 operational spacecraft The most high profile of these are the large strategic missions often referred to as flagships Large strategic missions are essential to maintaining the global leadership of the United States in space exploration and in science because only the United States has the budget technology and trained personnel in multiple scientific fields to conduct missions that attract a range of international partners This report examines the role of large strategic missions within a balanced program across NASA SMD space and Earth sciences programs It considers the role and scientific productivity of such missions in advancing science technology and the long term health of the field and provides guidance that NASA can use to help set the priority of larger missions within a properly balanced program containing a range of mission classes

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