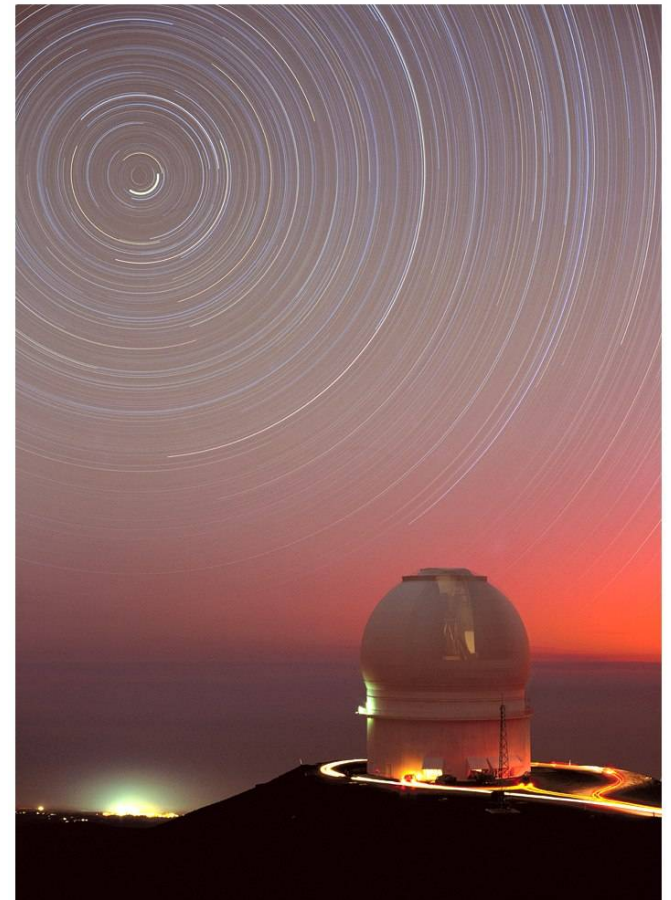


Lect. 01 Aug. 28, 2006

Introduction To Modern Astronomy I

Dr. Jie Zhang

捷 张



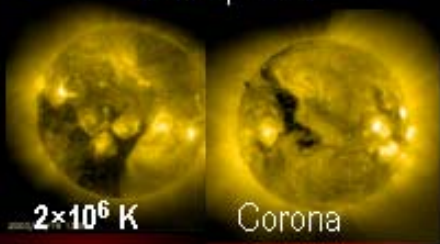
My Research

16 JAN 03

31 JAN 03

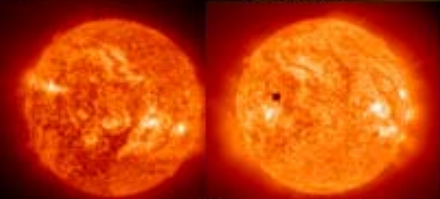


Heliosphere



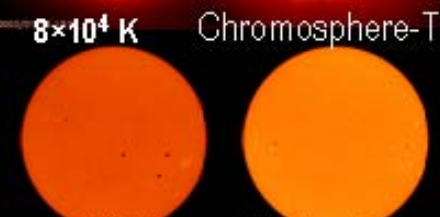
2×10^6 K

Corona



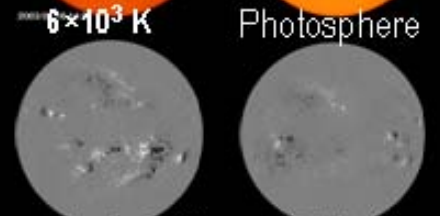
8×10^4 K

Chromosphere-TR

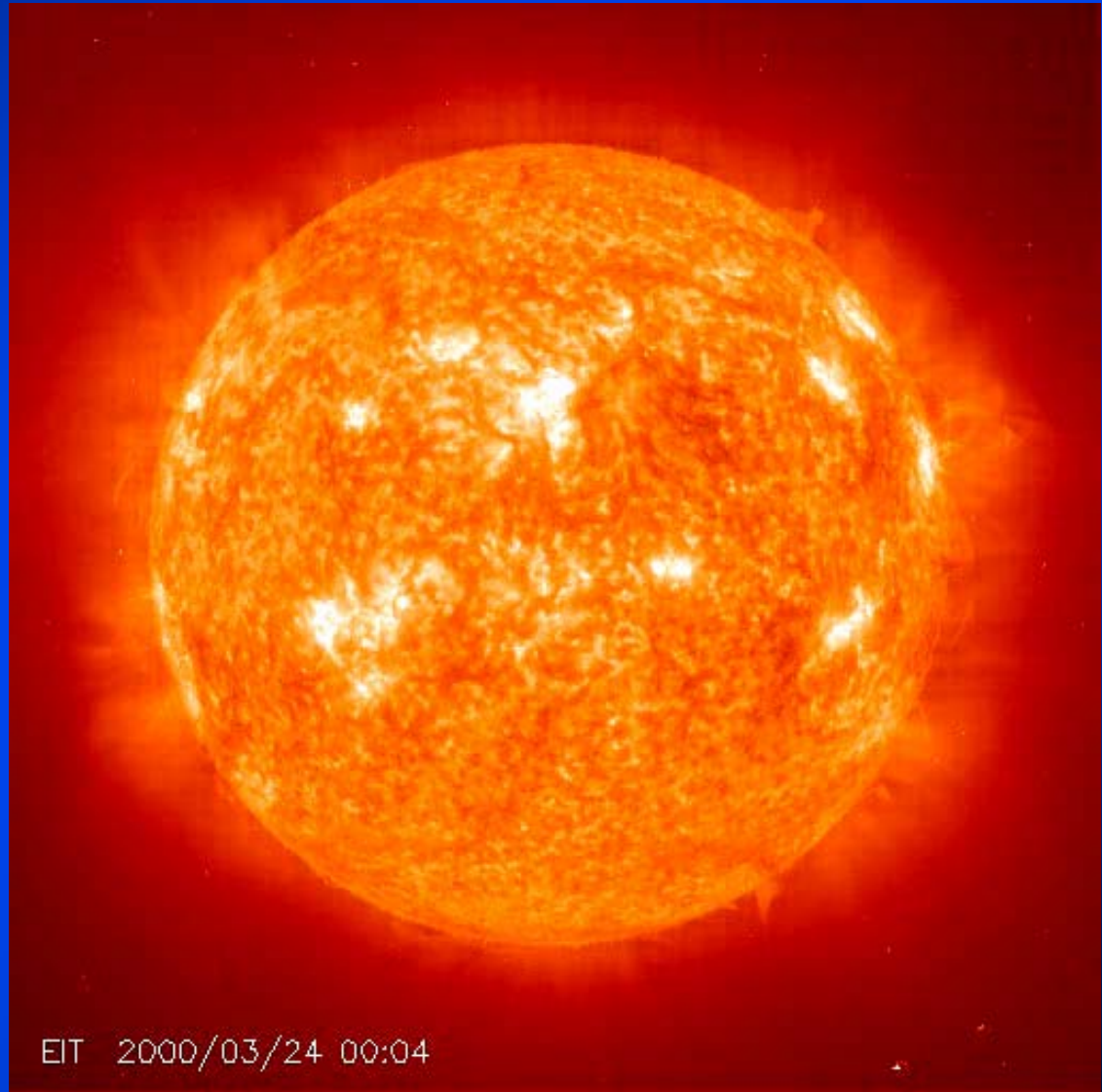


6×10^3 K

Photosphere



Surface Magnetic Field



EIT 2000/03/24 00:04

Syllabus

- Objectives
 - Get to know our universe, across the space and the time
 - Learn the scientific method
 - Learn the critical thinking
- The first course in a two-semester series
 - ASTR111, and ASRT112-Lab
 - ASTR113, and ASTR114-Lab
- Pre-requisite
 - None
 - No college level math, but basic algebra and geometry

Syllabus

- Text Book
 - By R. A. Freedman and W. J. Kaufmann III,
Universe, 7th Edition,
W. H. Freeman and Company, 2005
- Coverage: Chap. 1 to Chap 17
 - Planets, Moon, Planetary System, Physical Laws
- Do not cover Chap 18 after, which is for ASTR113
 - Sun, Stars, Galaxies, and Cosmology

Syllabus

- Homework & Projects:
 - None, except the lab (if taken)
- Examinations
 - **Three** 1-hour-long In-Class Exams
 - **One** Final Exam
 - All multiple choice questions
 - Closed book and closed note
 - Bring ID, Scantron (**Bring your own**) and pencils
 - **Light green scantron**

Syllabus

- **Grading**
 - Final exam: **40%**
 - Three IN-CLASS Exam: **60%**
 - **Only two counted in the final grade, each 30%**
 - **one lowest score is dropped**
- **No Make-up Exams**
 - **no excuse**
 - **Do not be late in the exam**
- **No Extra Credit**
- **Grades may be curved based on overall performance**

Syllabus

- Encouraging class participation
 - 3-5 discussion questions are given in each class
 - Will exactly appear in the in-class exams
 - Will not be posted online before the exams

Honor Code

"George Mason University shares in the tradition of an honor system that has existed in Virginia since 1842. The Honor Code is an integral part of university life. On the application for admission, students sign a statement agreeing to conform to and uphold the Honor Code. Therefore, students are responsible for understanding the provisions of the code. In the spirit of the code, a student's word is a declaration of good faith acceptable as truth in all academic matters. Therefore, cheating and attempted cheating, plagiarism, lying, and stealing of academic work and related materials constitute Honor Code violations. To maintain an academic community according to these standards, students and faculty must report all alleged violations of the Honor Code to the Honor Committee. Any student who has knowledge of, but does not report, an Honor Code violation may be accused of lying under the Honor Code."

Syllabus

- Resources
 - Class website
- http://spaceweather.gmu.edu/SWP/classes/ASTR111_2006/index.html
 - All presentations in PPT format
 - Presentation notes will be posted online, usually before the class
 - Check the website for important announcement, e.g., exam date, grades and others

Syllabus

- Studying Tips
 - **Attending the classes**
 - Before class, reading the chapters
 - In class, taking notes
 - Not the details, but something help you thinking
 - Concentrate on reasoning and understanding
 - **Do not lag behind; hard to catch up later**

Contact Information

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- Other hours by appointment
- Office: Room 351, Research 1
- Telephone: (703)993-1998
- E-mail: jzhang7@gmu.edu