

Introduction

Schedule

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01 24.10.2000 Introduction

Stars

02 31.10.2001 Normal Stars/Sun

X-ray Binaries

03 07.11.2001 Low Mass X-ray Binaries with NS

04 14.11.2001 High Mass X-ray Binaries with NS

05 21.11.2001 Normal Neutron Stars, Evolution

06 28.11.2001 Black Hole Candidates

Interstellar Medium, Galaxies

07 05.12.2001 Gas, Dust, Supernova-Remnants

08 12.12.2001 Normal Galaxies

Active Galaxies

09 19.12.2001 AGN, I

10 09.01.2002 AGN, II

11 17.01.2002 TeV Astronomy, cosmic rays

Large Structures

12 23.01.2002 Galaxy Clusters

13 30.01.2002 γ -ray bursts

14 06.02.2002 X-ray background

15 13.02.2002 Summary

Literature

PADMANABHAN, T., 2001/2001, *Theoretical Astrophysics, Vol. 1 and 2*, Cambridge: CUP, ~\$50/Volume

New textbook series (3 vols planned), containing the foundations of astrophysics. Recommended.

CHARLES, PH. and SEWARD, F., 1994, *Exploring the X-ray Universe*, Cambridge: Cambridge Univ. Press, \$54

Somewhat outdated coverage of X-ray astronomy at a level slightly lower than this class.

LONGAIR, M., 1973, *High Energy Astrophysics, Vol. 1 and 2*, Cambridge: Cambridge Univ. Press, ~\$50/Volume

Good and pedagogical introduction to high energy astrophysics, unfortunately uses MKS units.