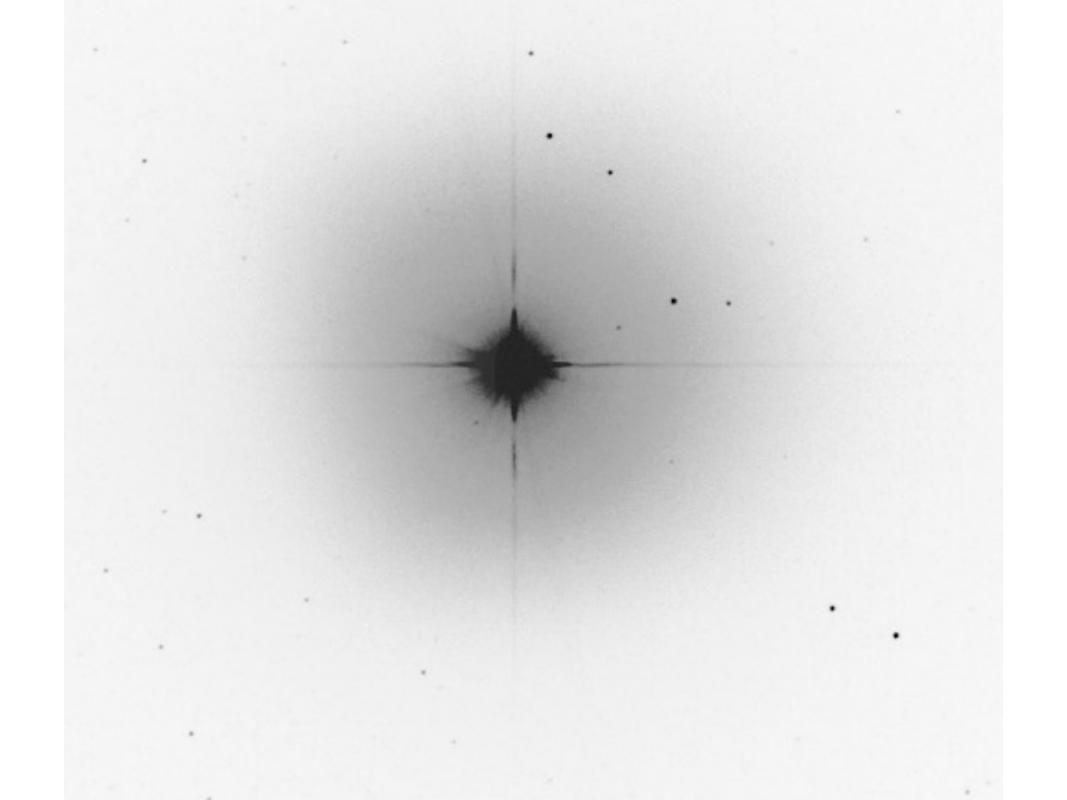
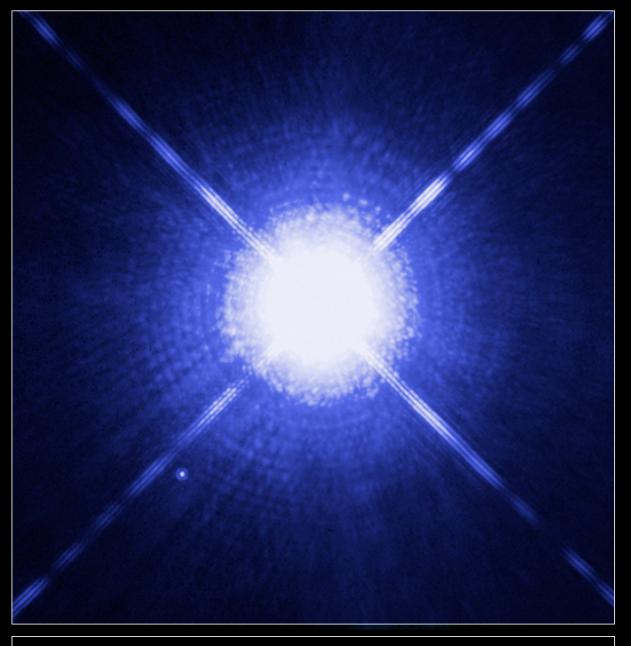
Structure and Evolution of Stars

Lecture 14





Sirius A and Sirius B Hubble Space Telescope • WFPC2

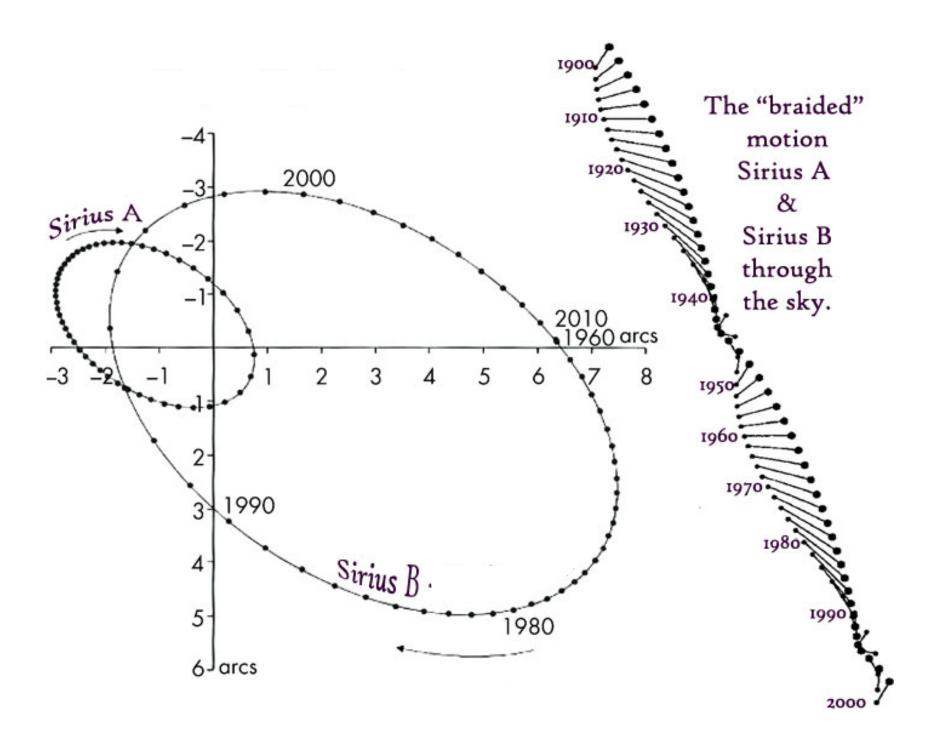
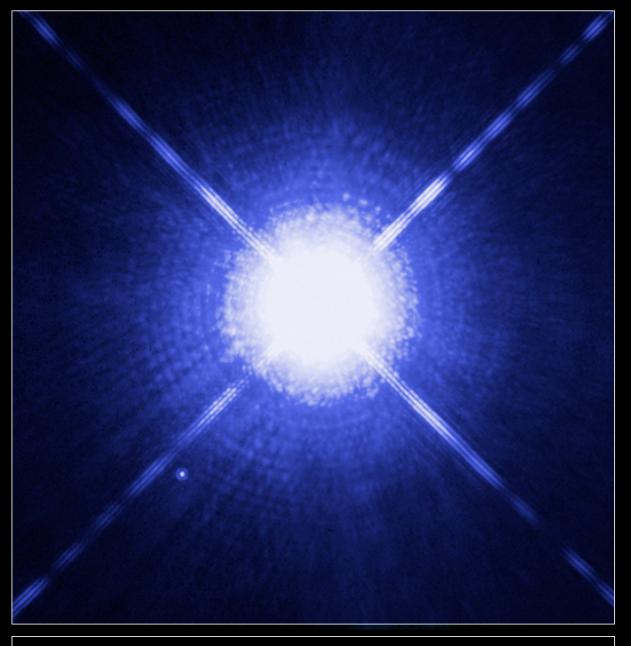


Table 14.1 Physical Parameters of the Sirius A B Binary System.

Property	Sirius A	Sirius B
Spectral type	A1V	DA2
$M_V ~({ m mag})$	1.4	11.2
${ m Mass}~(M_{\odot})$	2.0	0.98
Radius (R_{\odot})	1.7	0.0084
Surface gravity $(\log g)$	4.3	8.57
Luminosity (L_{\odot})	25	0.026
Temperature (K)	9940	25200



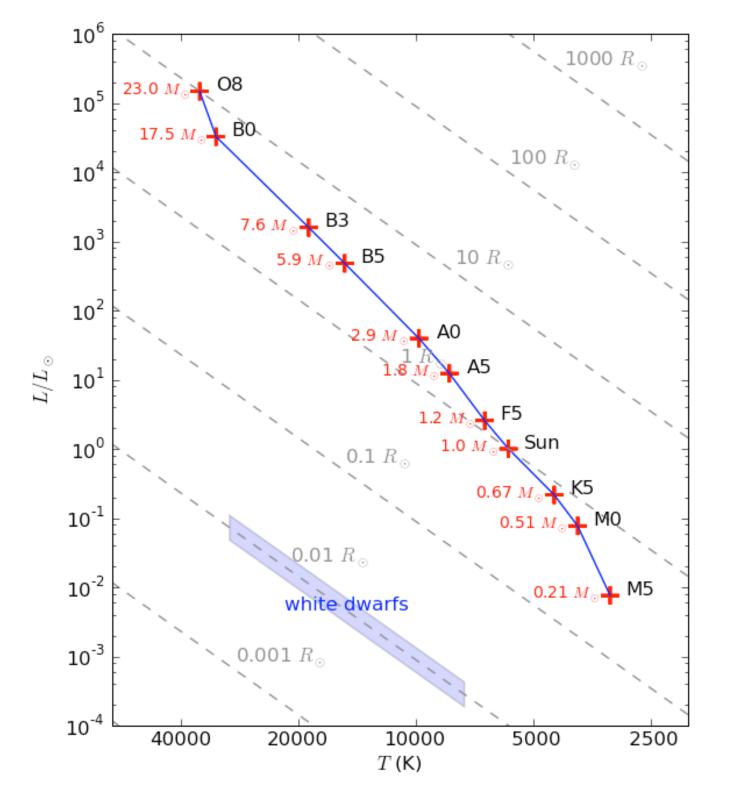




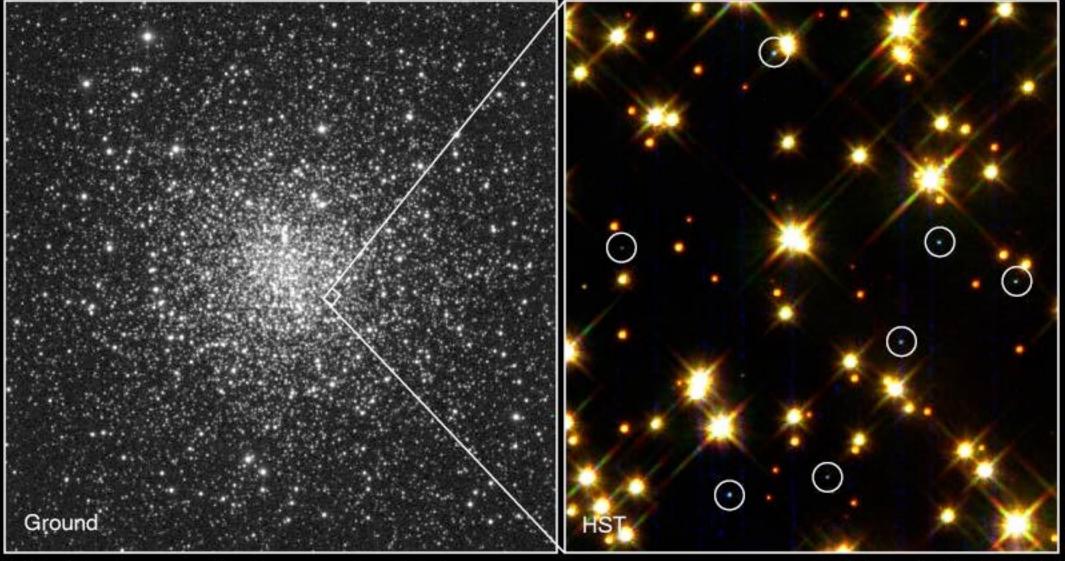
Sirius A and Sirius B Hubble Space Telescope • WFPC2

Chandra X-ray Observatory chandra.harvard.edu

Sirius A & B



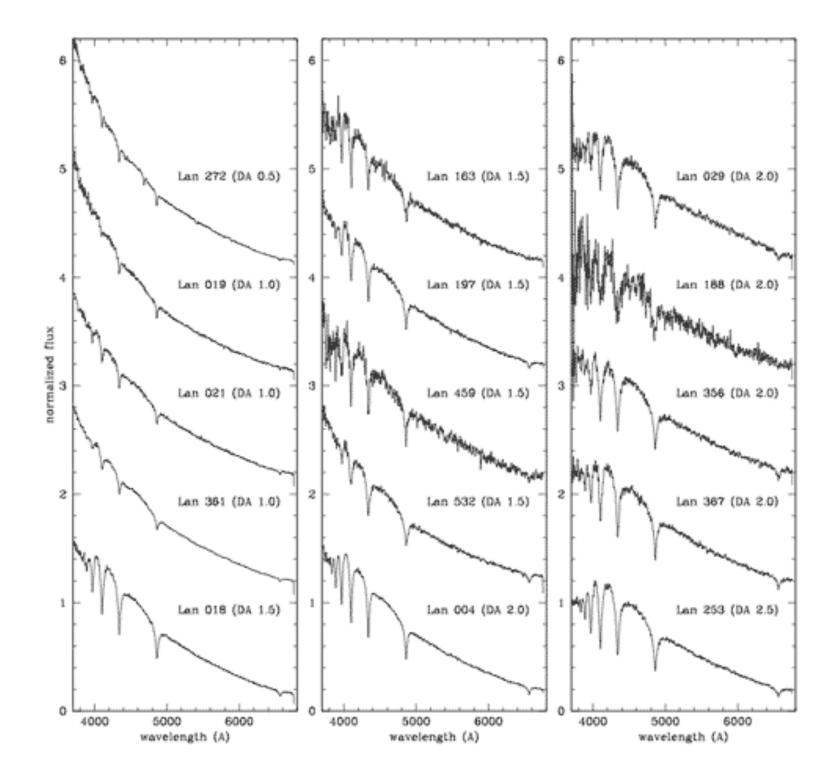


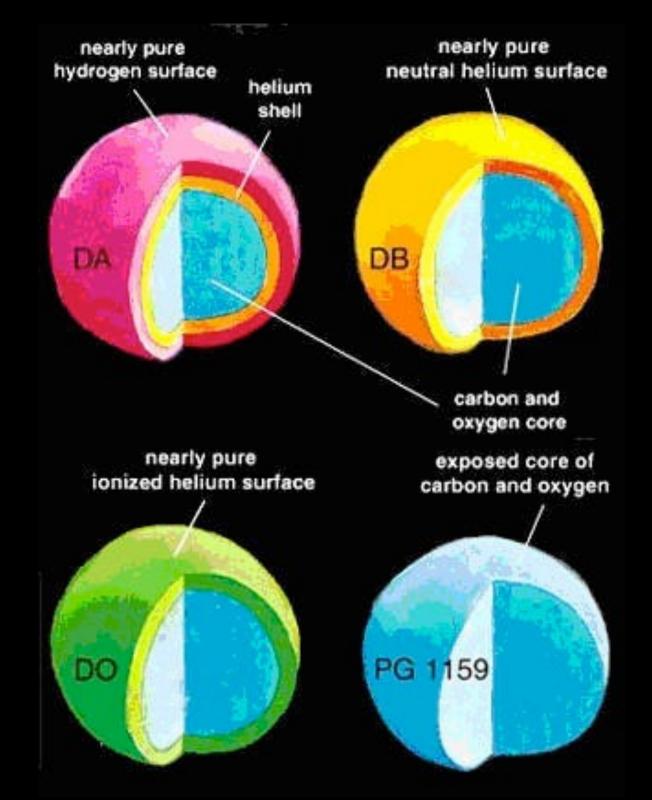


White Dwarf Stars in M4

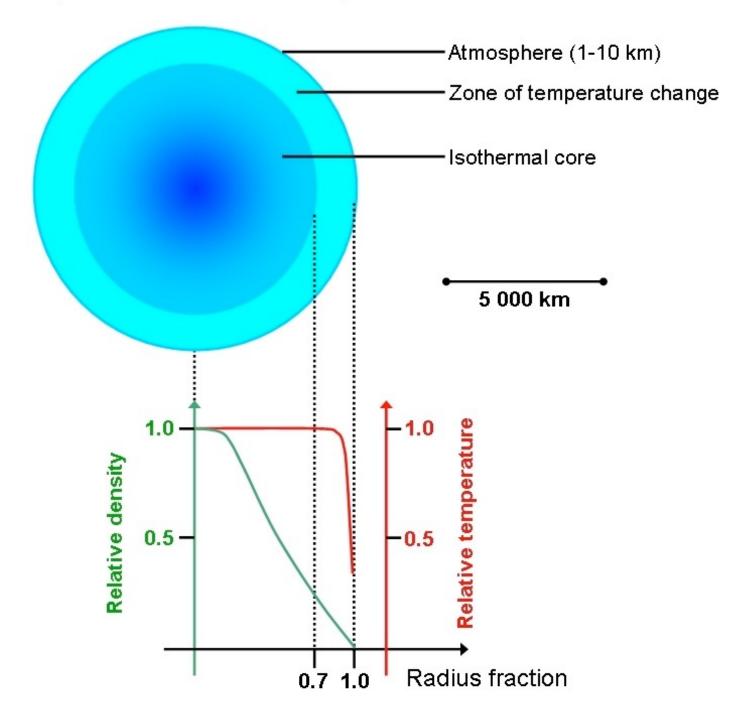
PRC95-32 · ST Scl OPO · August 28, 1995 · H. Bond (ST Scl), NASA

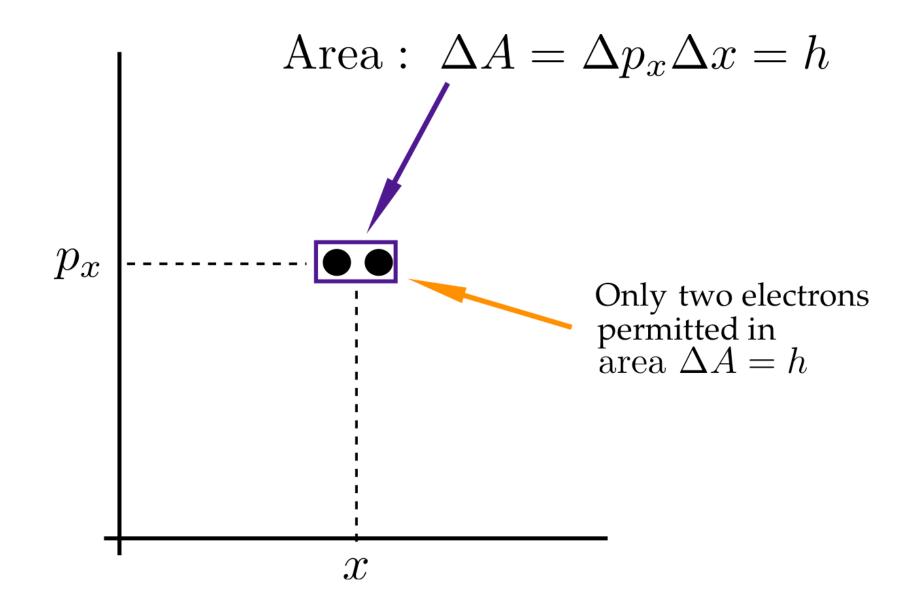
HST · WFPC2

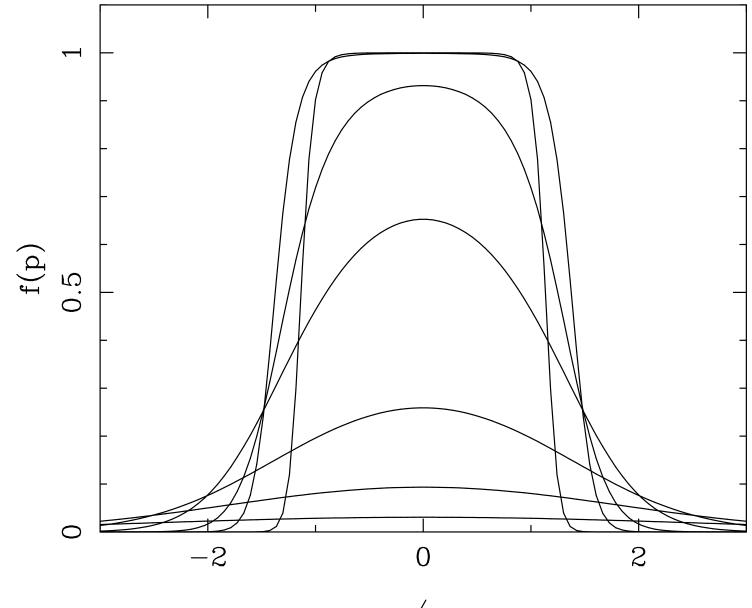




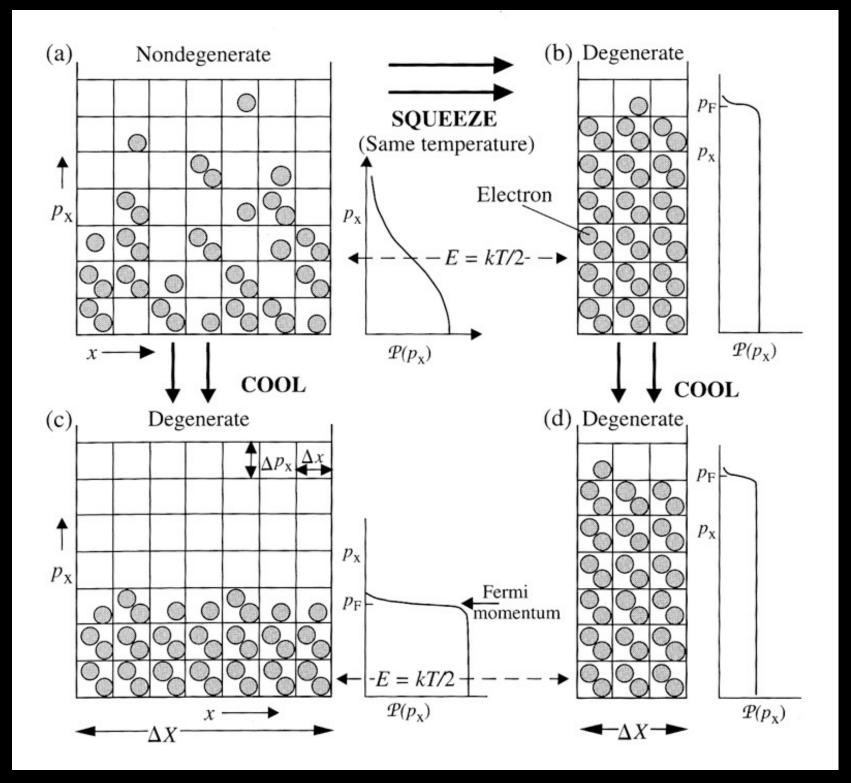
Structure of a White Dwarf







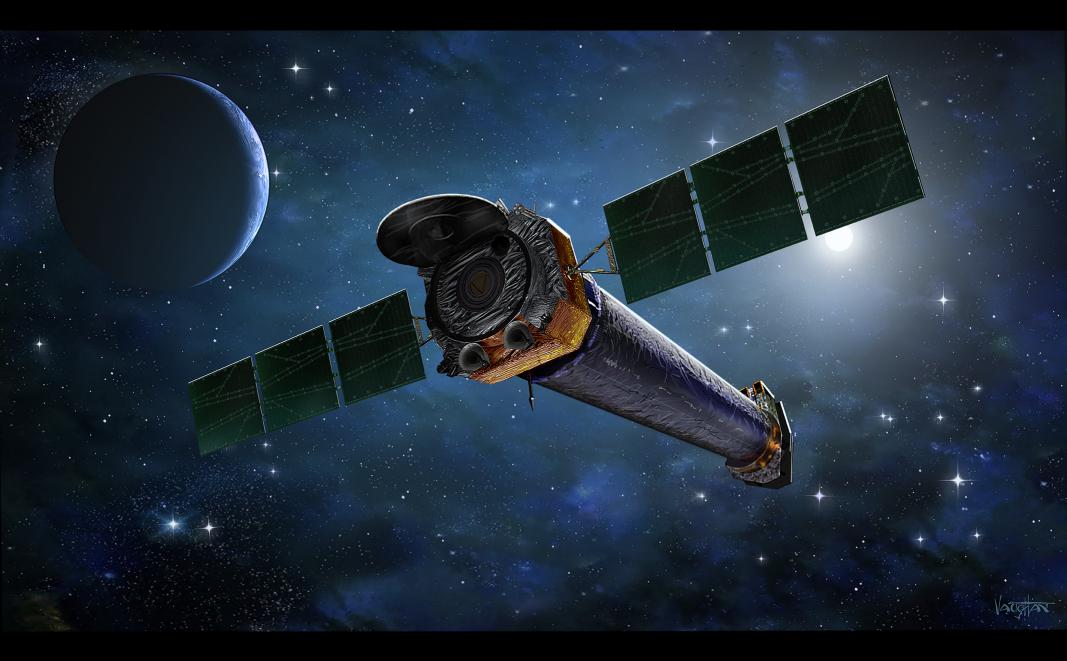
 p/p_F





Chandra X-ray Observatory chandra.harvard.edu

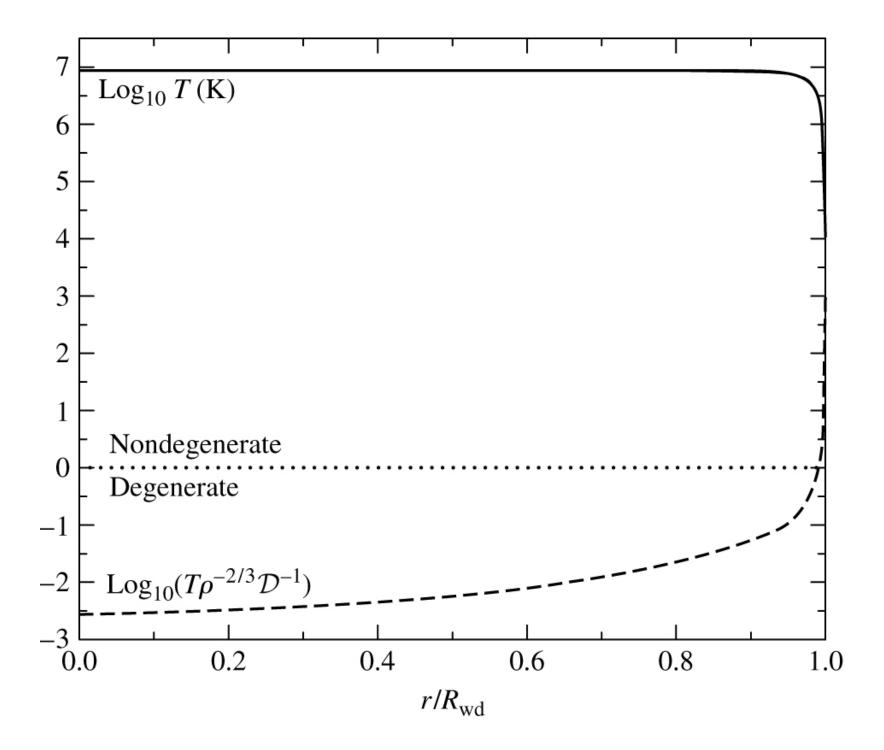
Sirius A & B

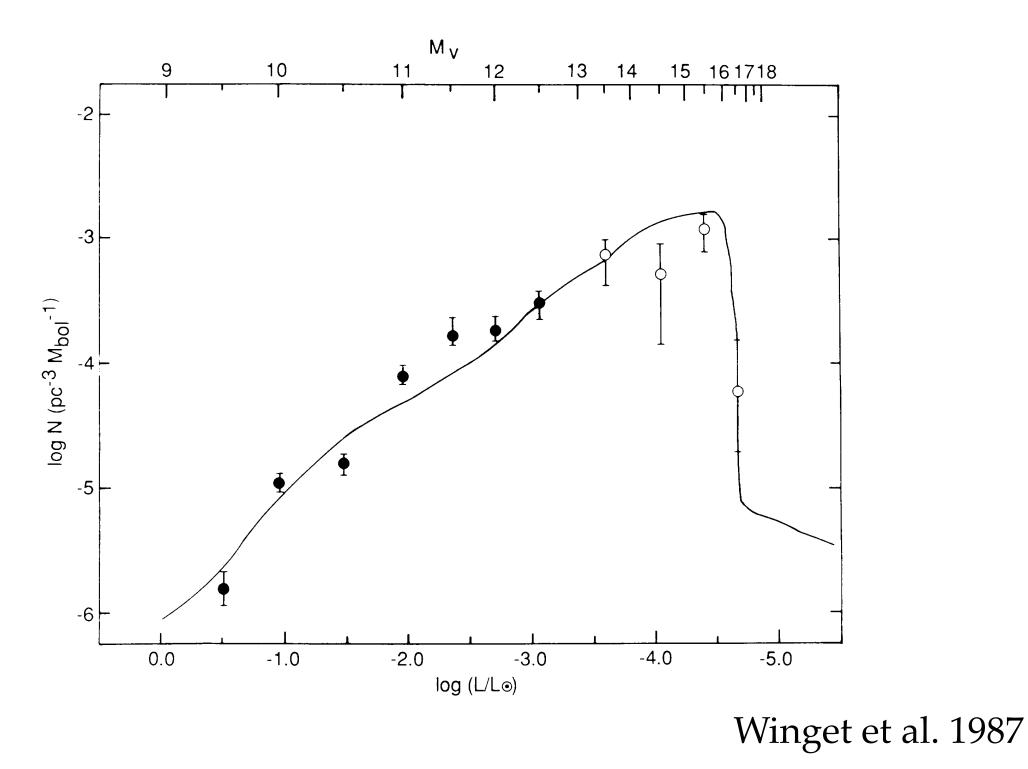


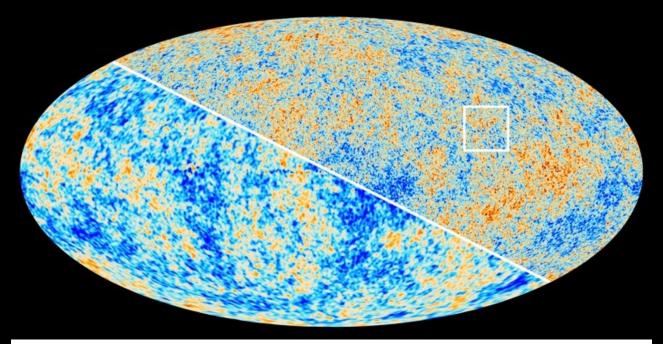












The Cosmic Microwave Background as seen by Planck and WMAP

