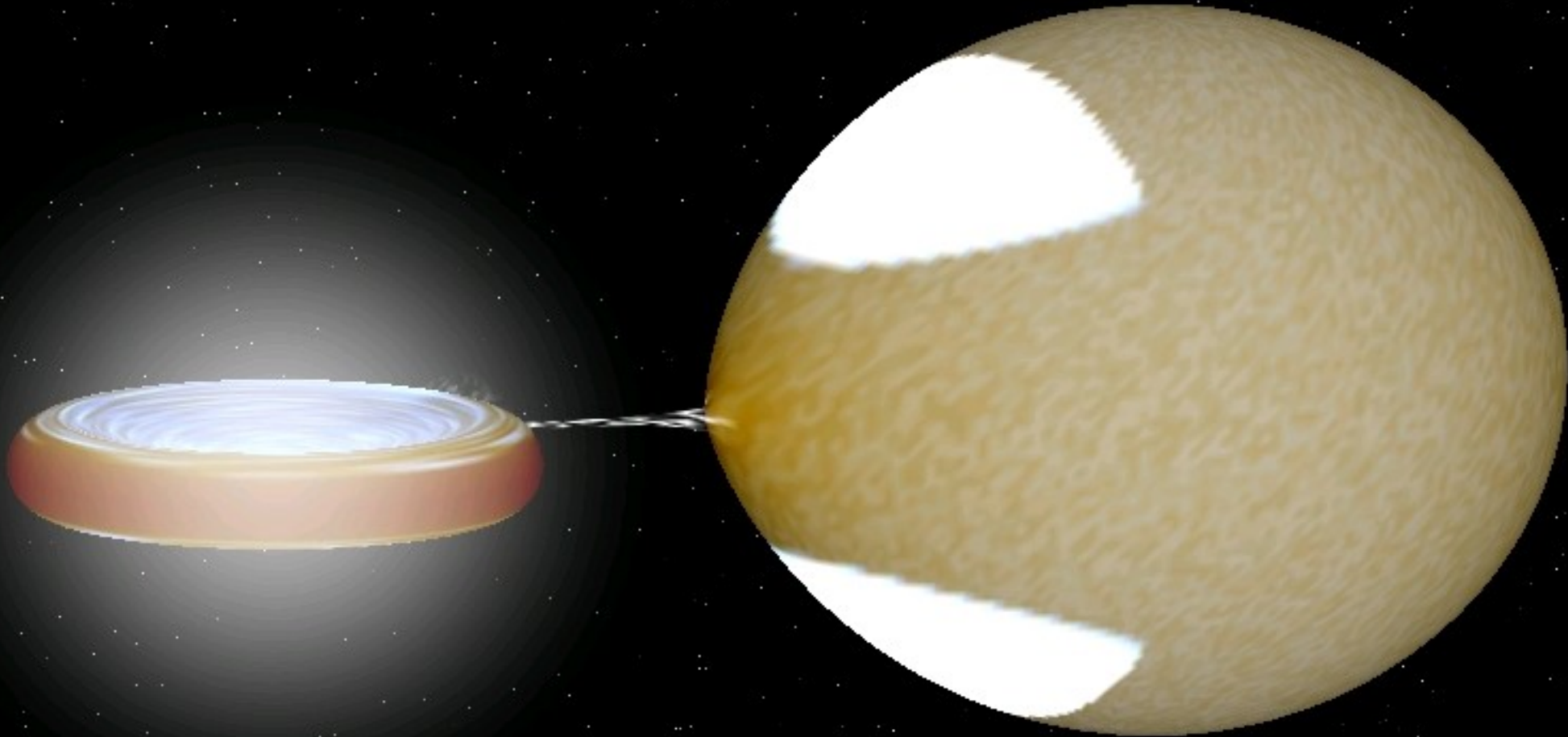


# X-ray and UV eclipse mapping of U Sco

*Jan-Uwe Ness*

XMM-Newton Science Operations Centre

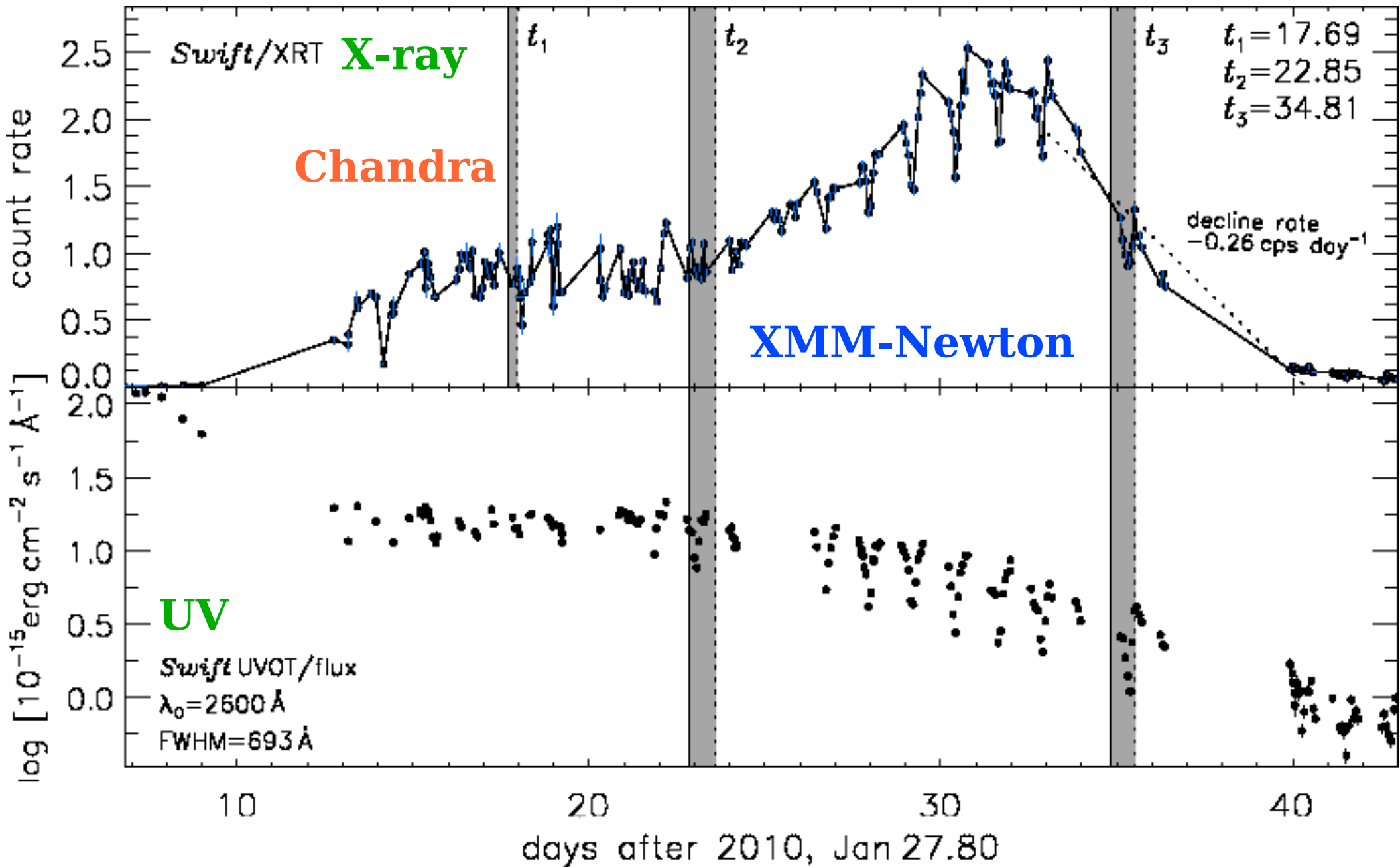


European Space Astronomy Centre

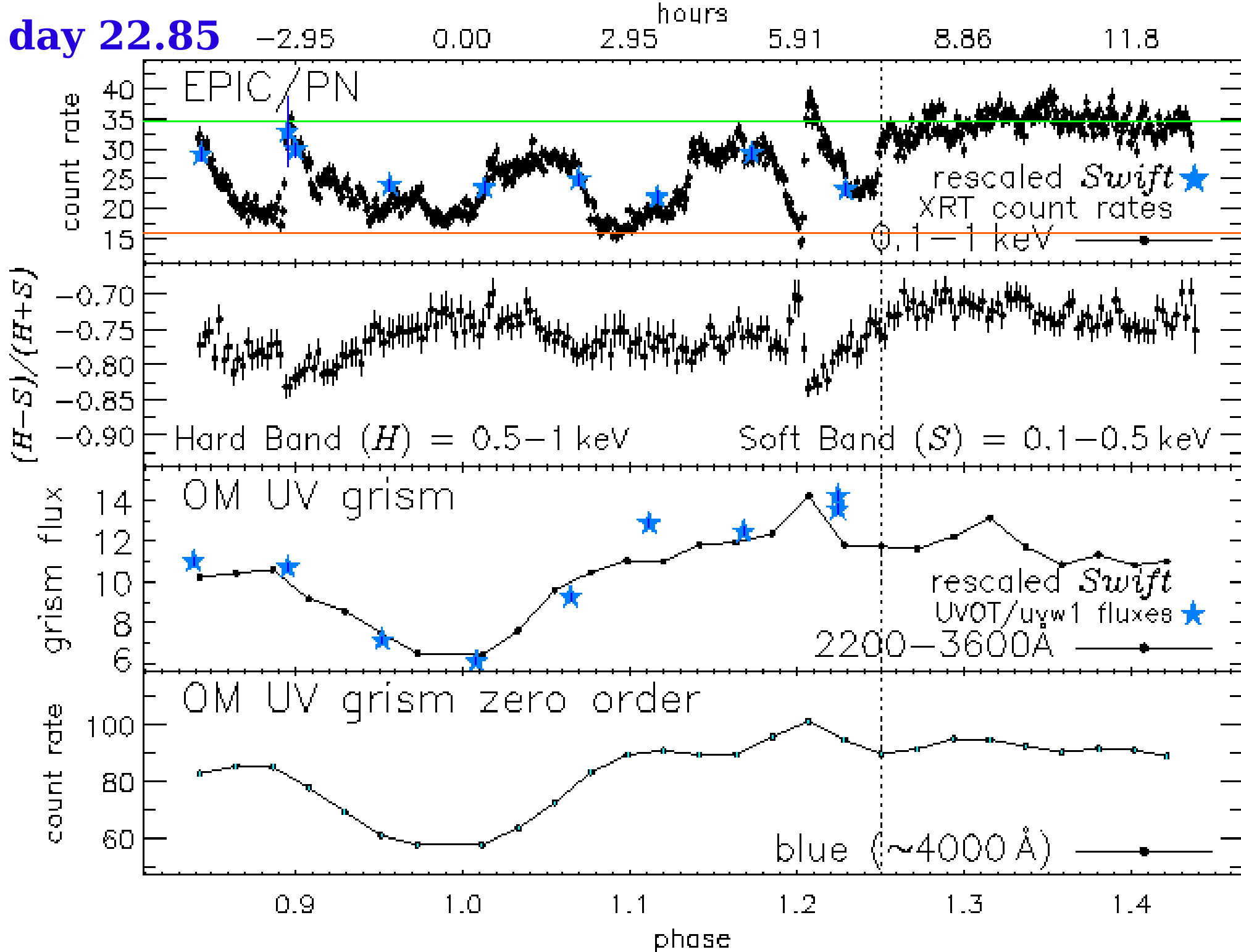


Image courtesy:

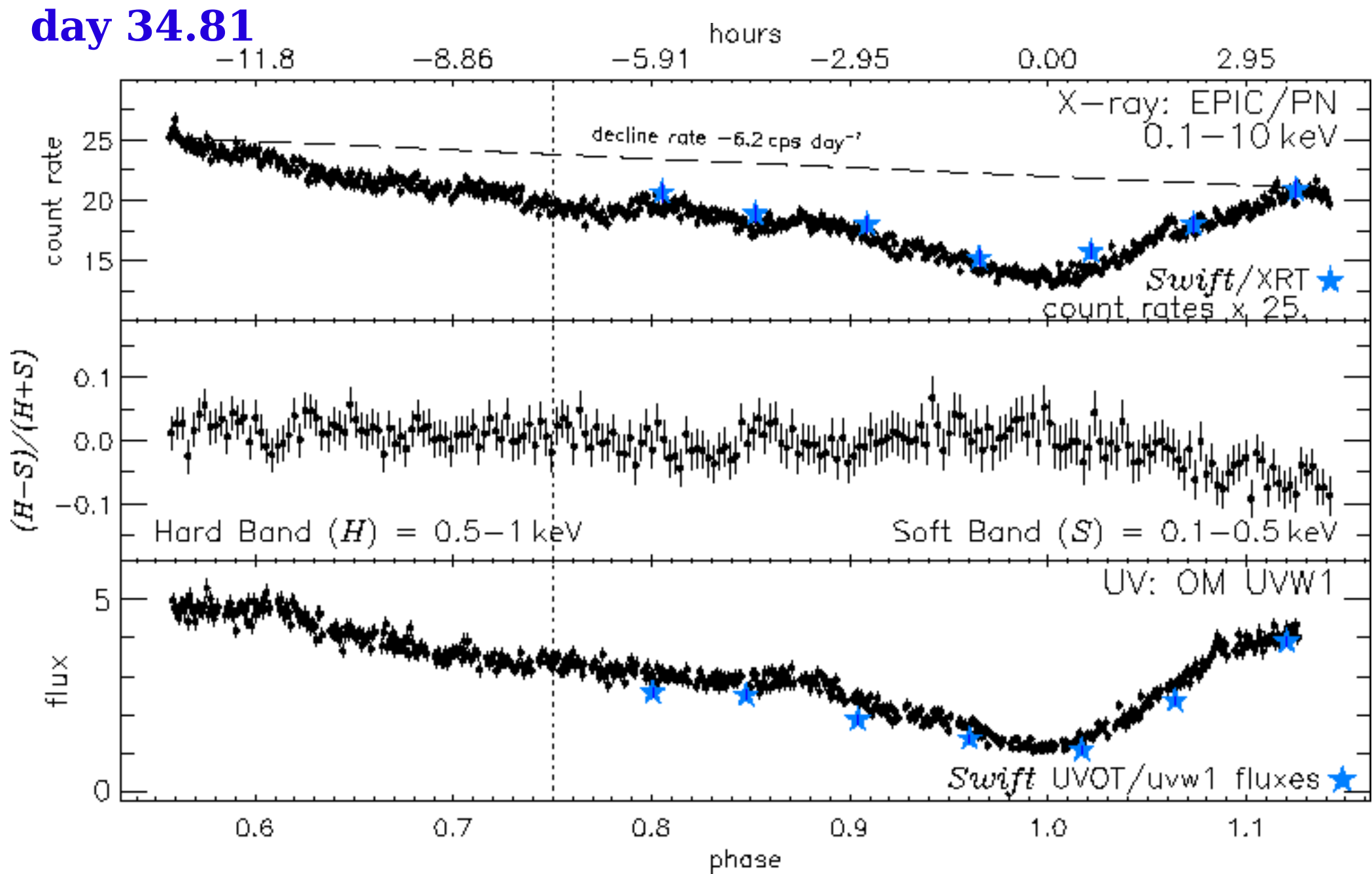
Hachisu et al. (2000, ApJ 528, L97)

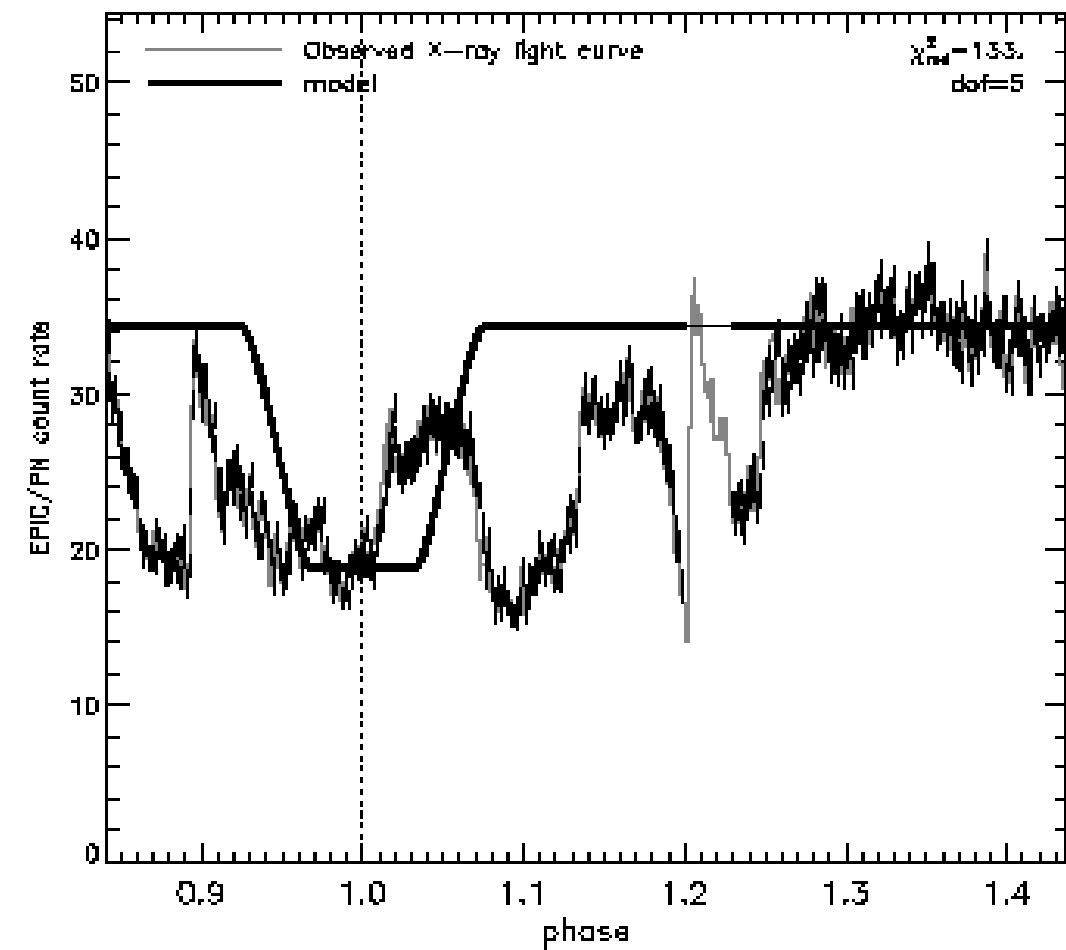
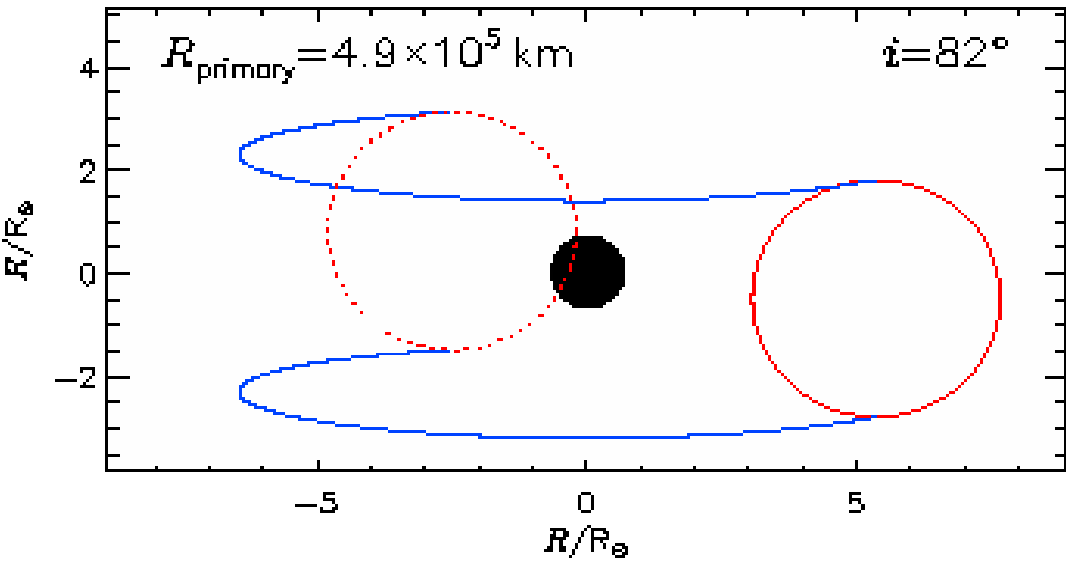


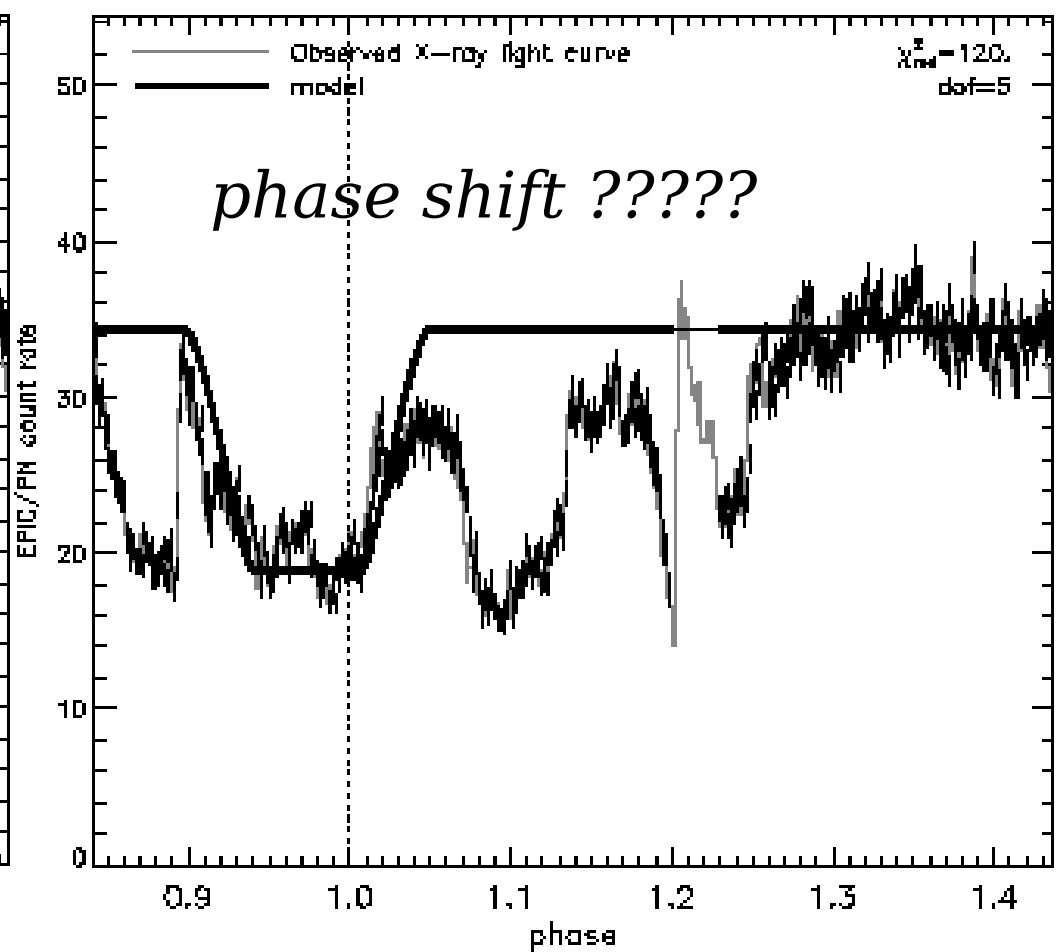
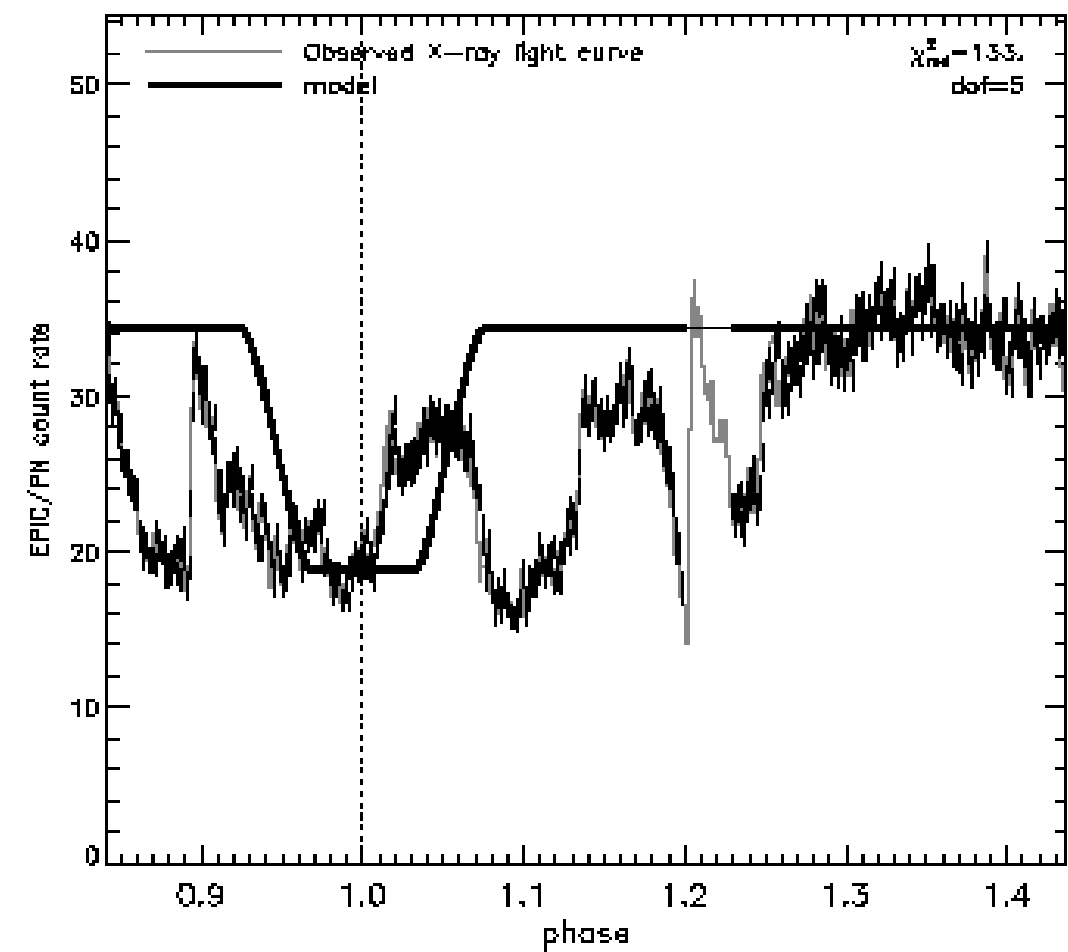
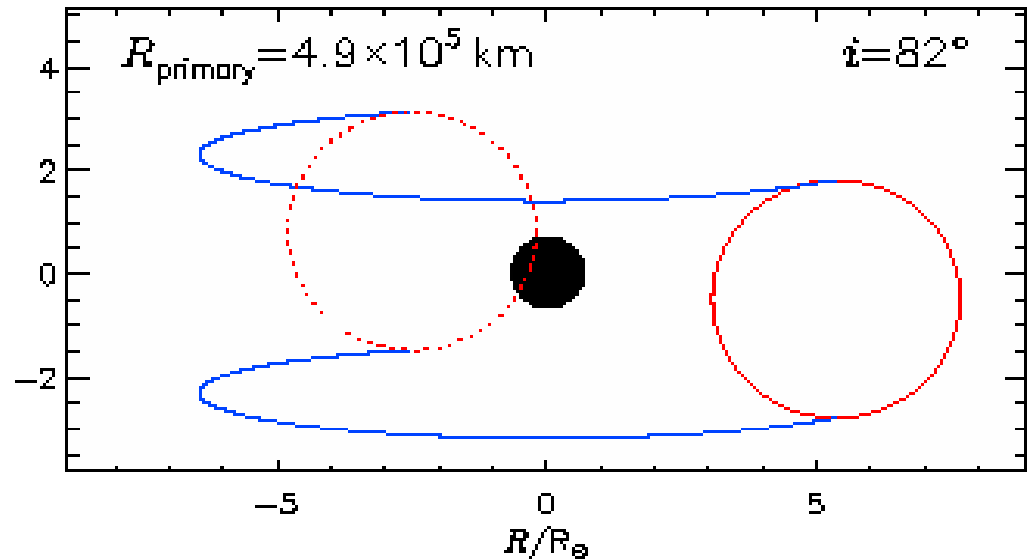
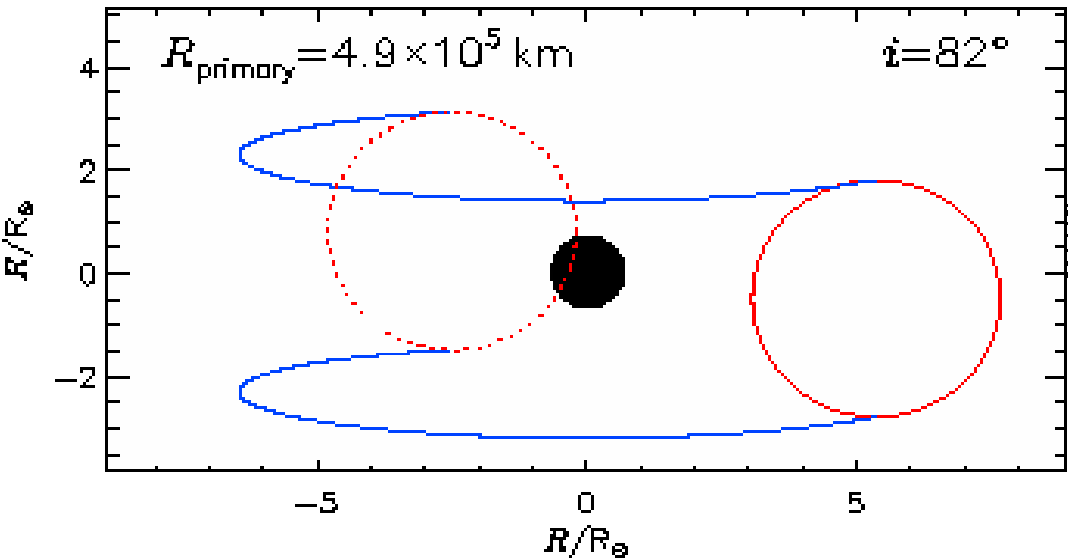
*Swift* Nova-CV group  
<http://www.swift.ac.uk/nova-cv/>

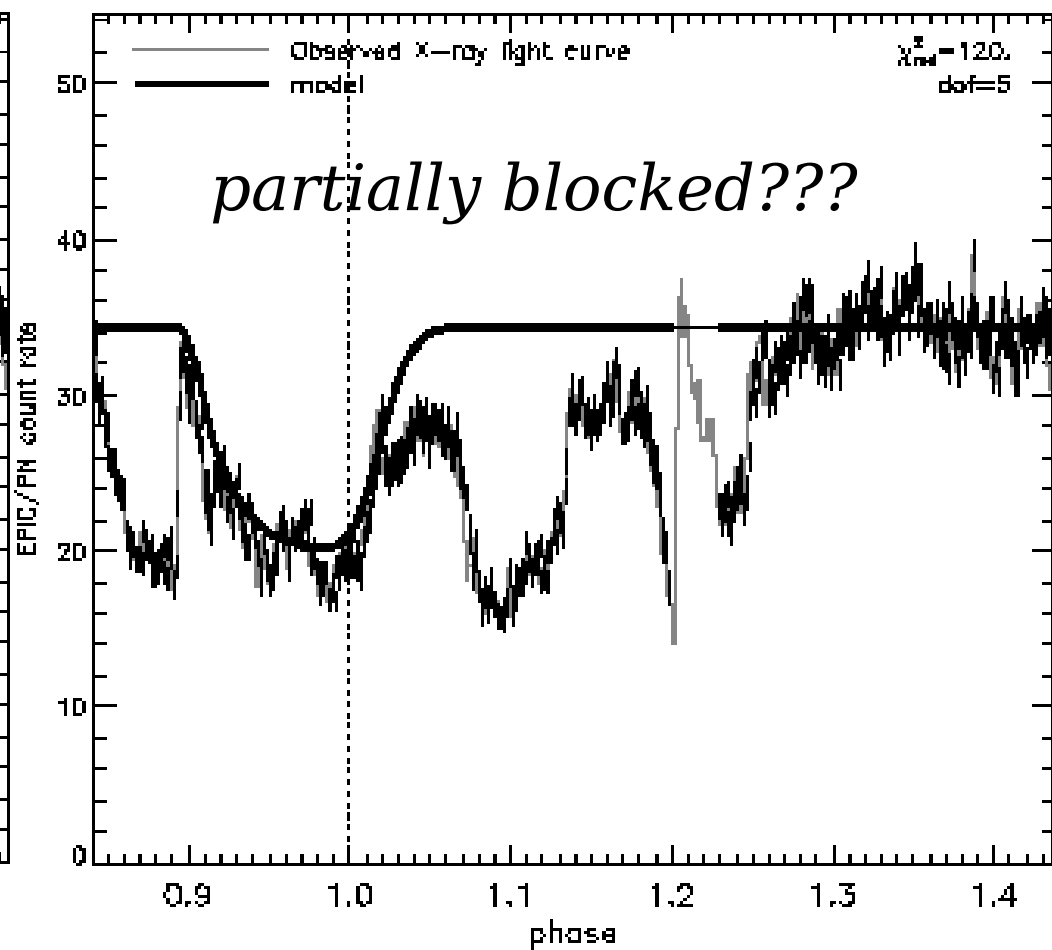
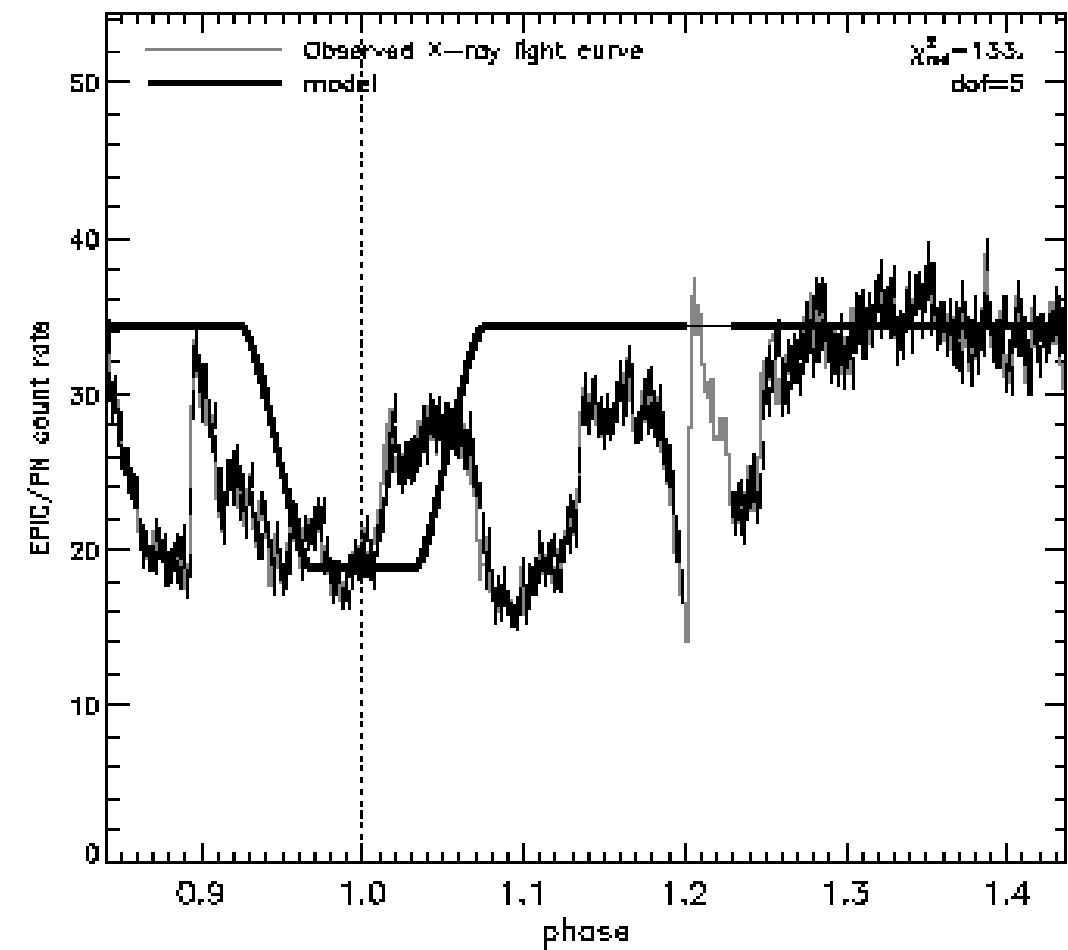
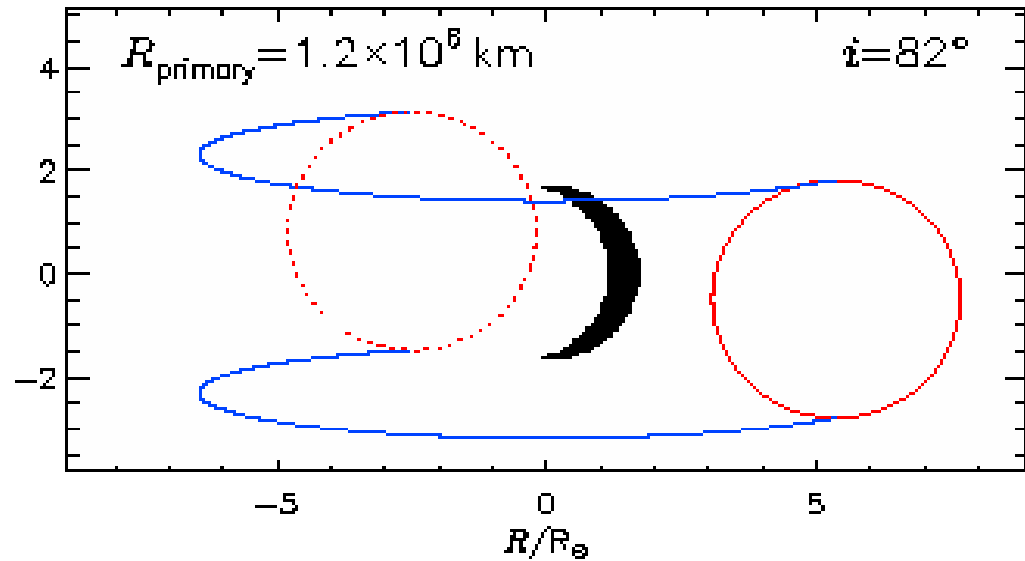
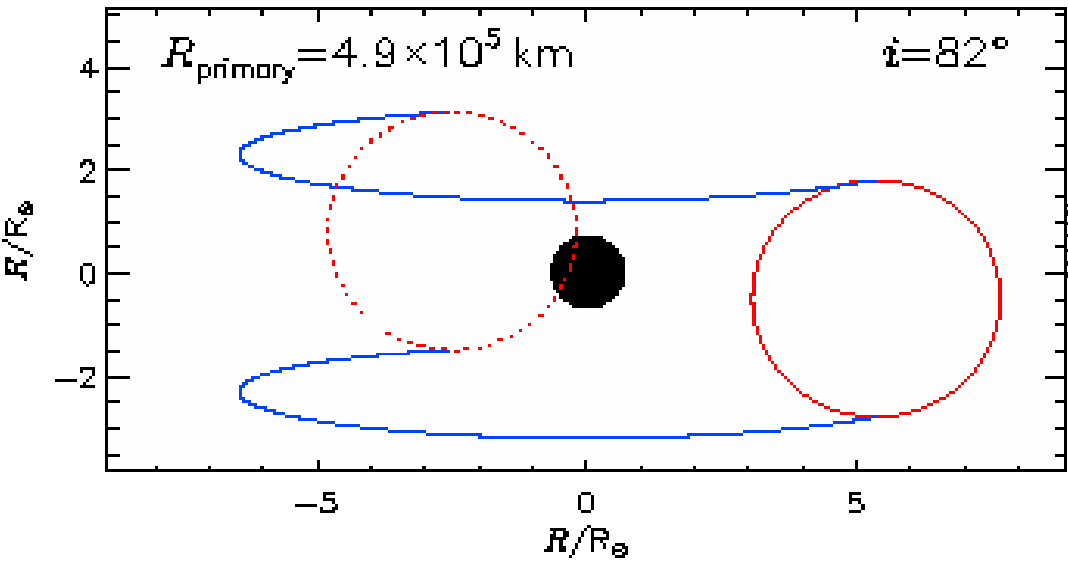


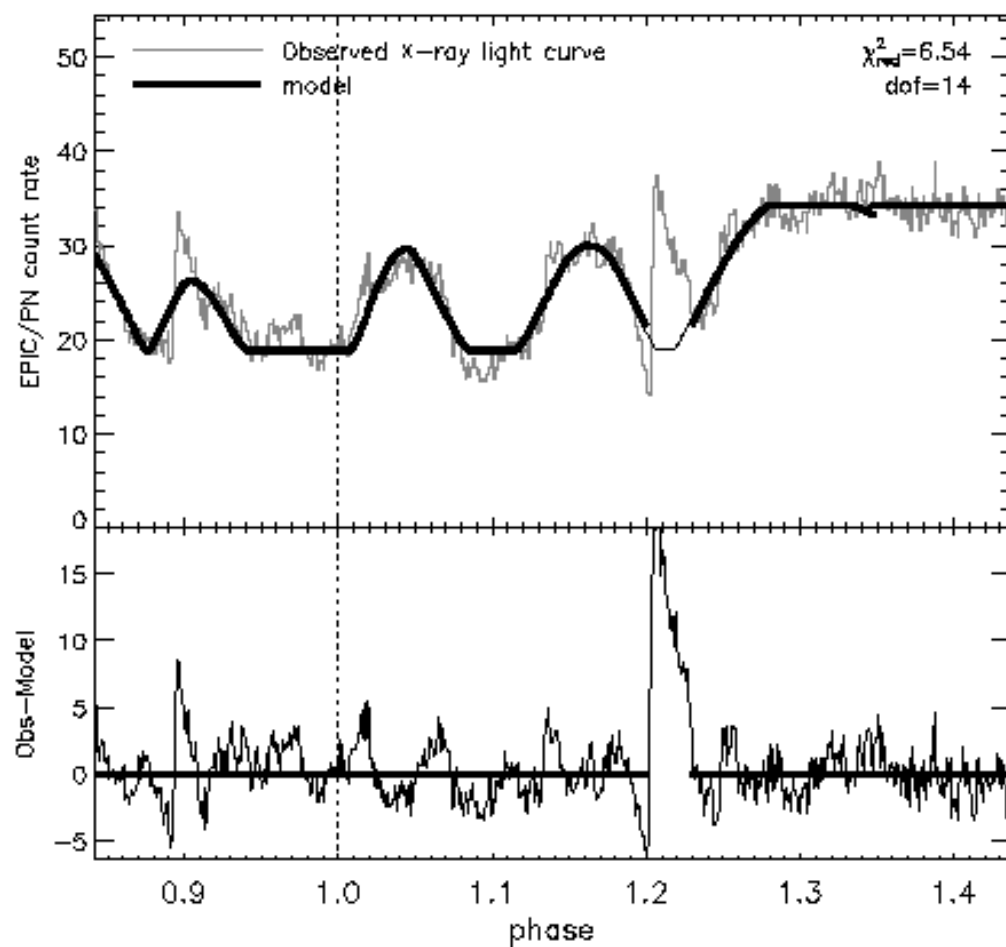
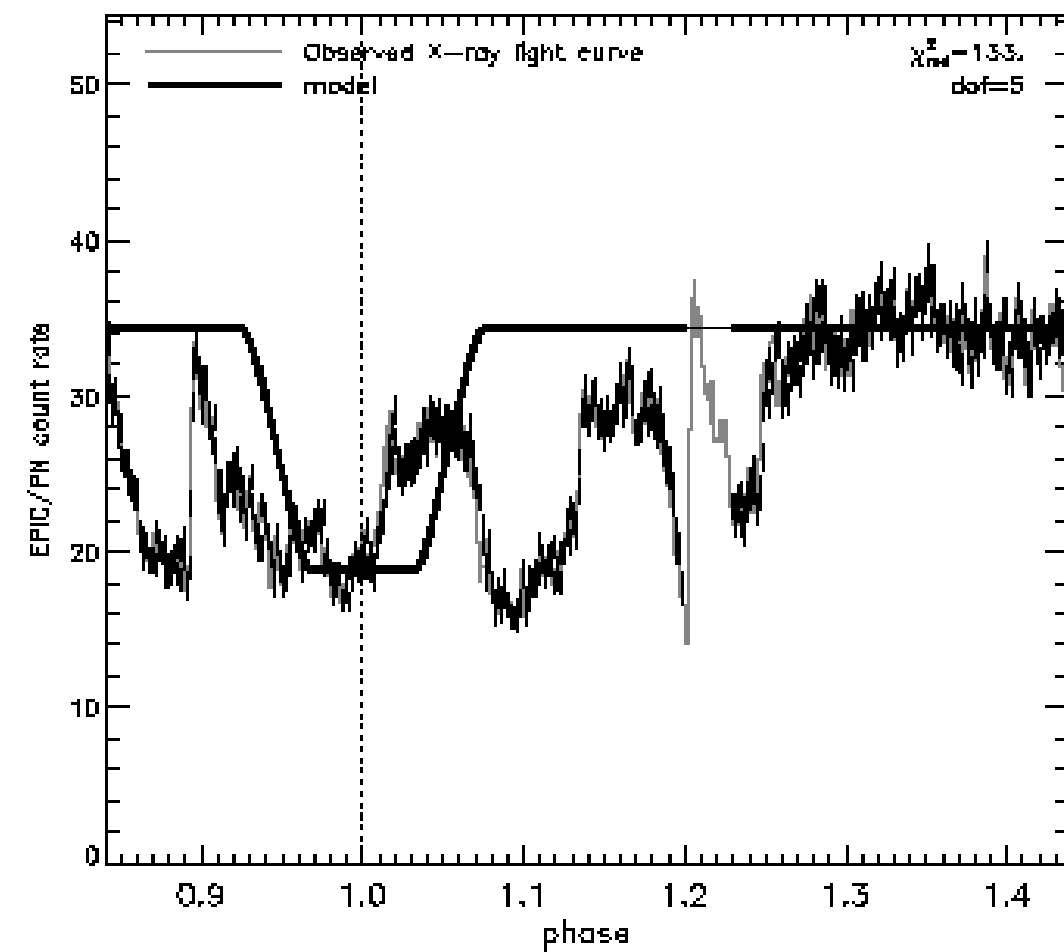
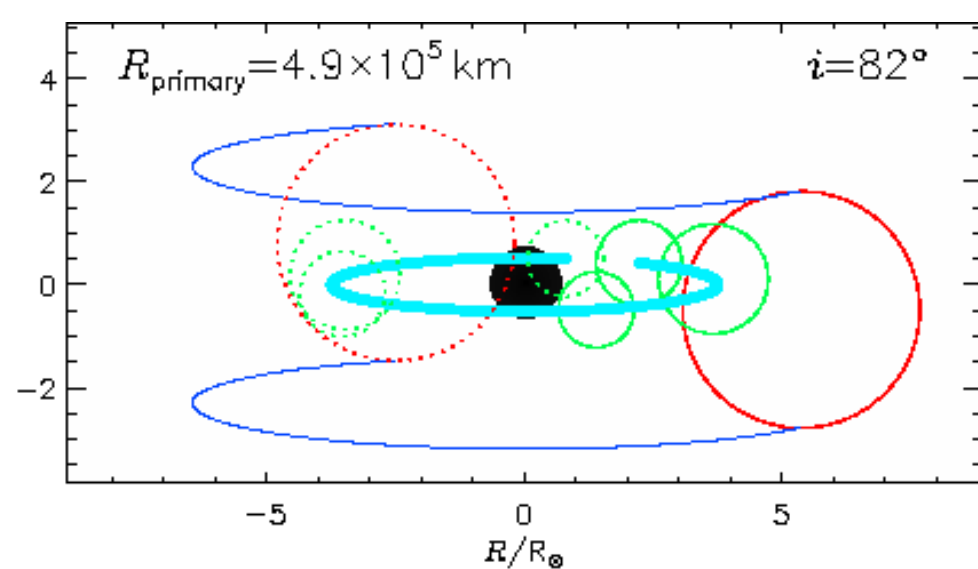
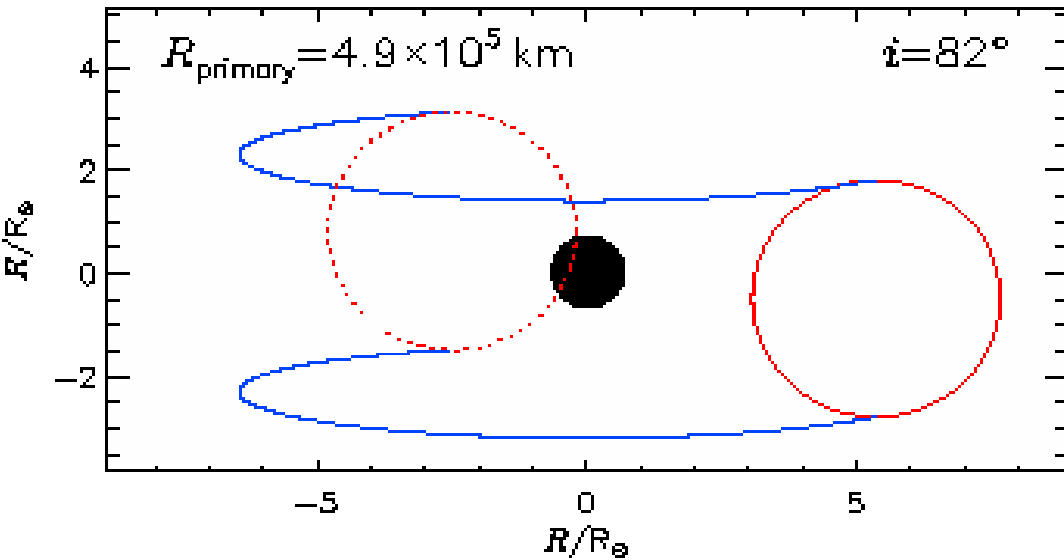
day 34.81



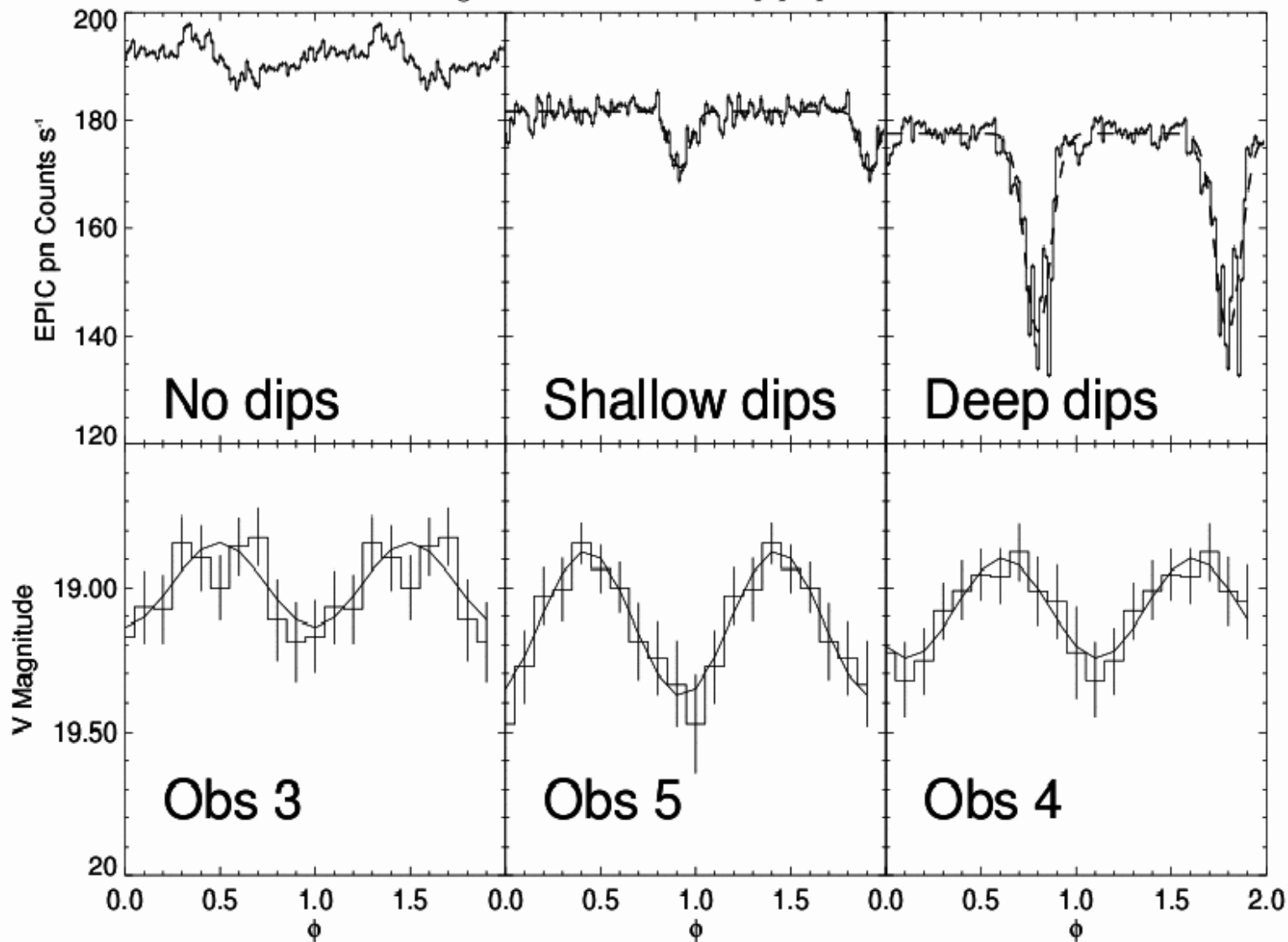








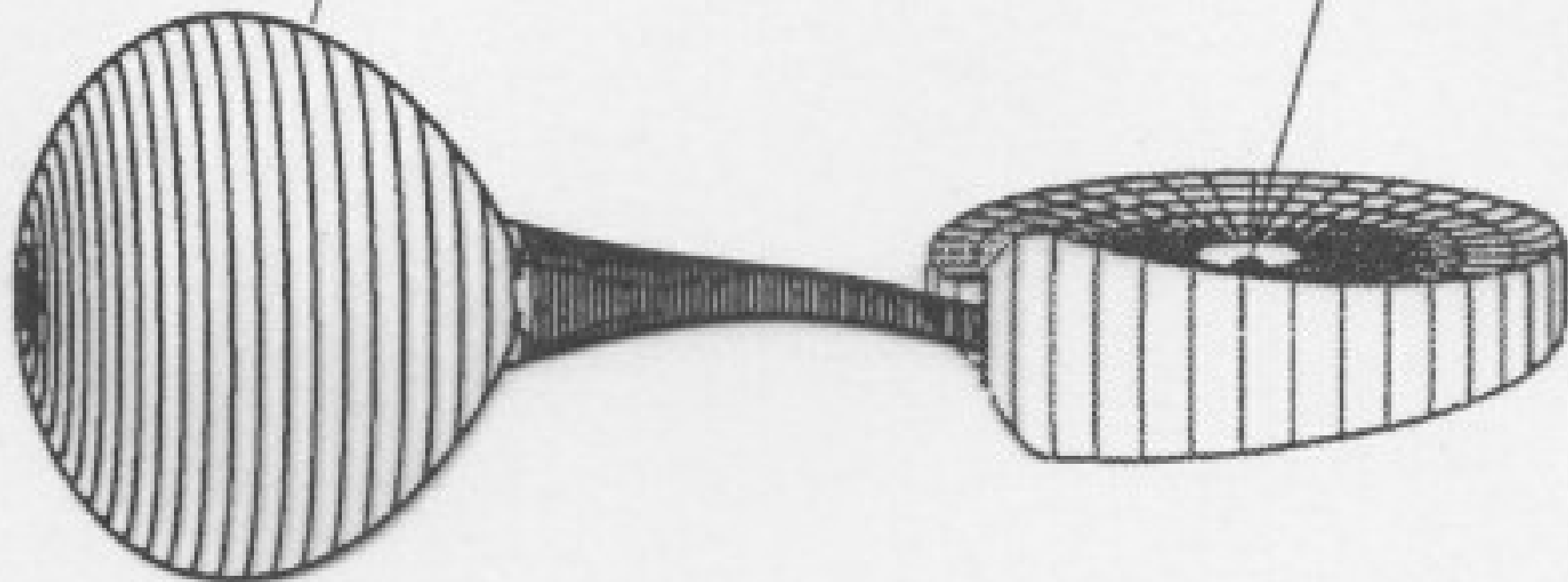


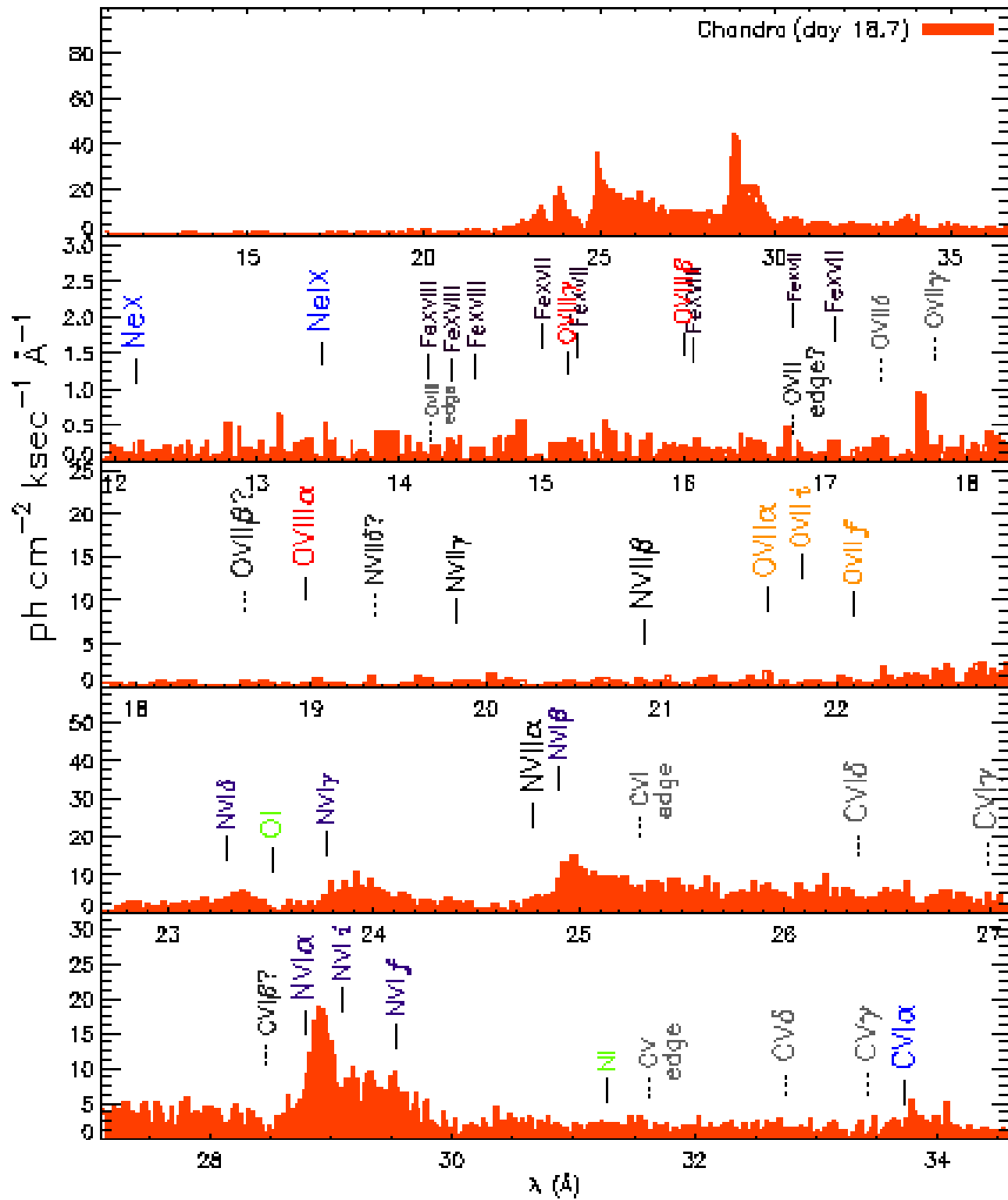


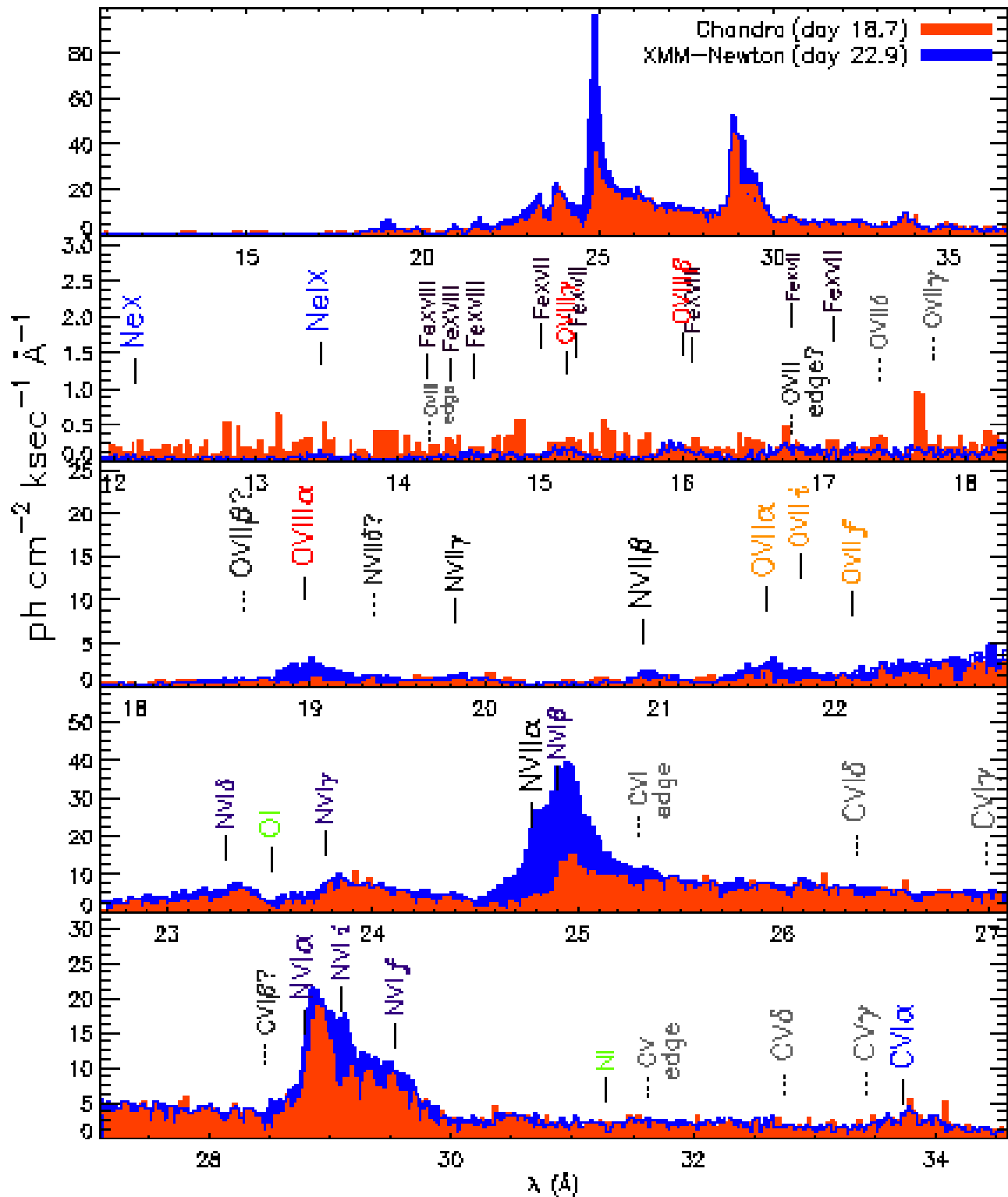
**Fig. 5.** 0.6–10 keV EPIC pn (upper panels) and V filter OM (lower panels) **XB 1254–690** light curves folded at the refined orbital period determined in Sect. 2.6 when no dips, shallow dips and deep dips were present. The reference epoch for phase is the same for all the plots and  $\phi = 0.0$  corresponds to optical minimum. The reference phase for the optical minimum has been calculated taking into account the dip reference phase calculated in Sect. 2.3 and assuming that the dip centre occurs at  $\phi = 0.8$ . The binning is 1416 s and 200 s for the OM and EPIC pn light curves, respectively. The solid lines in the lower panels show the fit of Table 2.

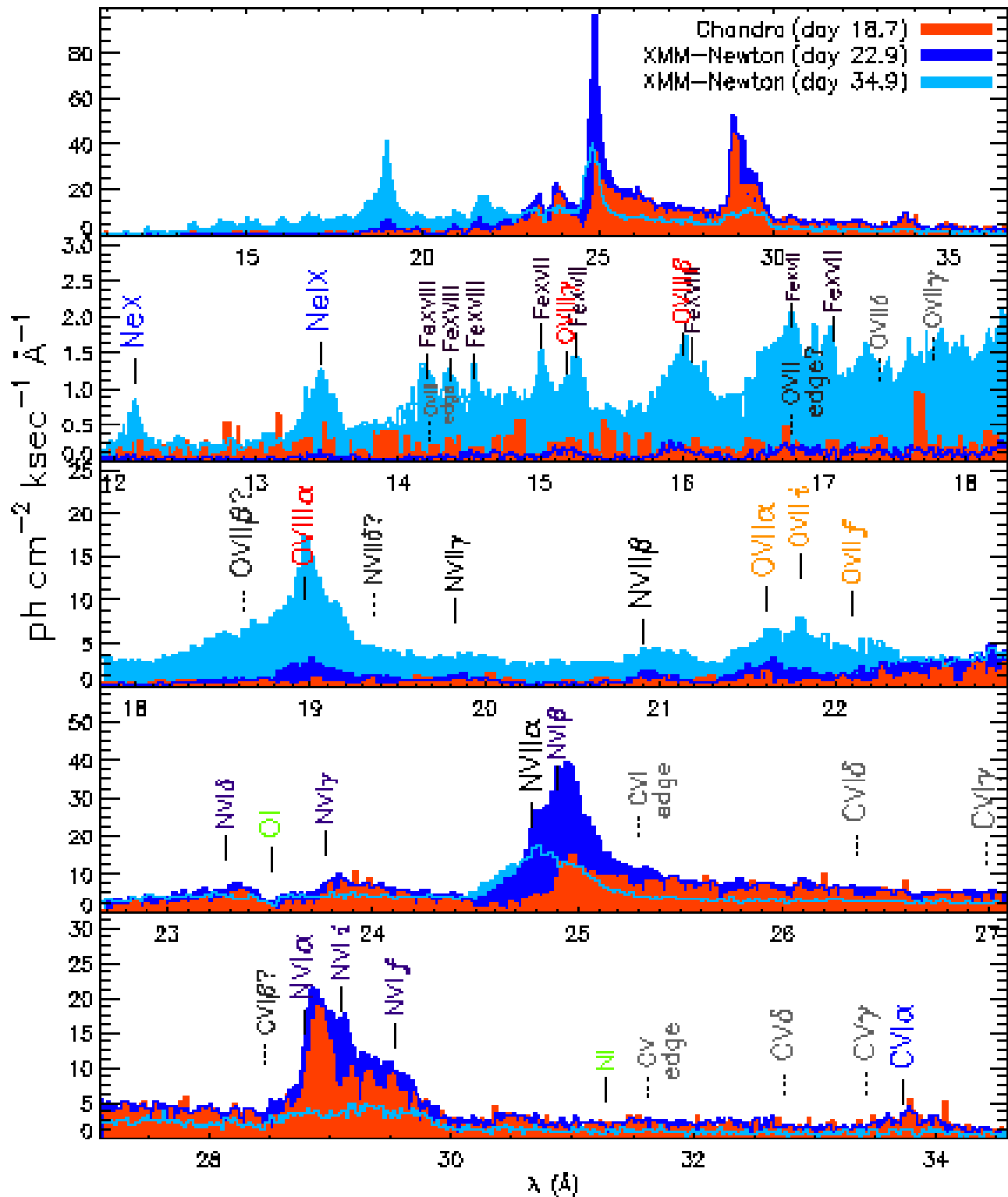
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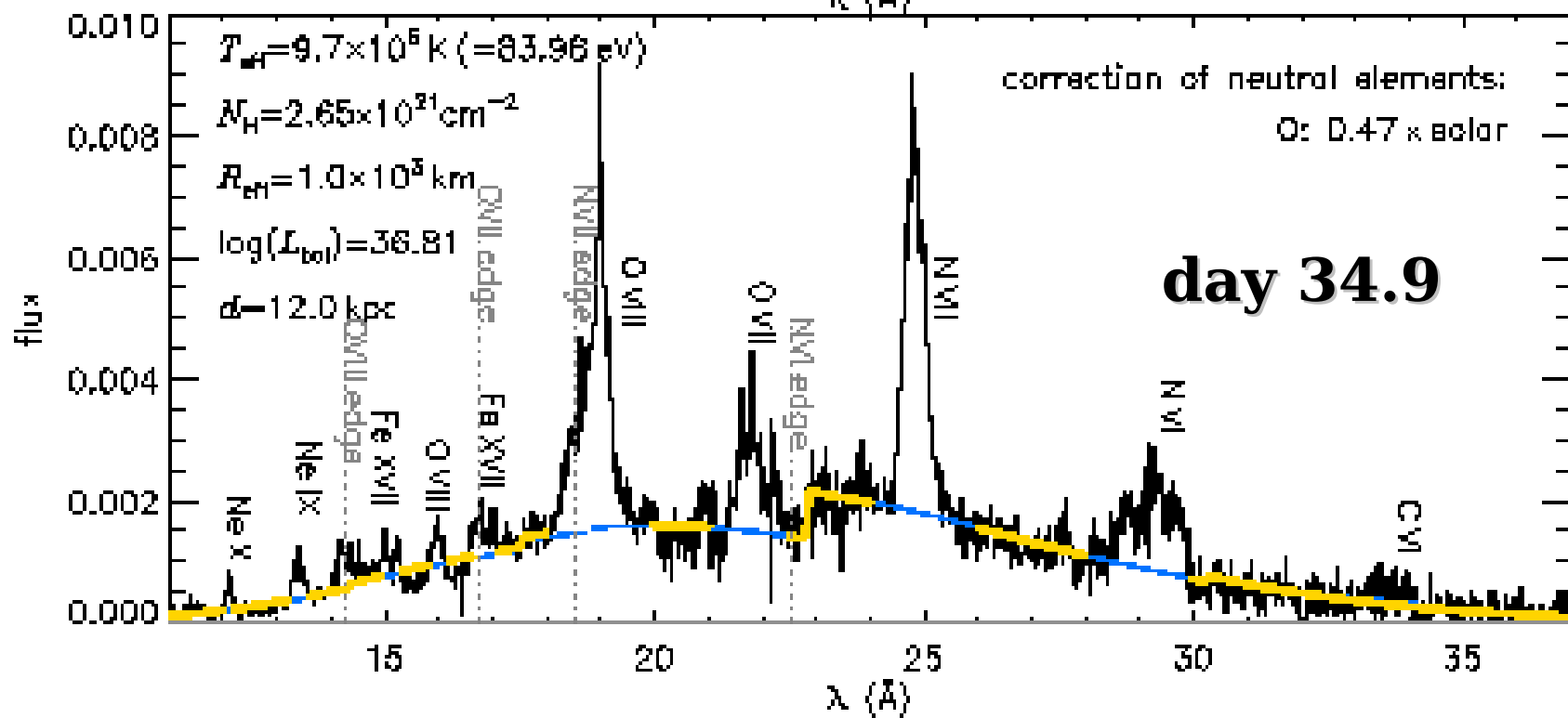
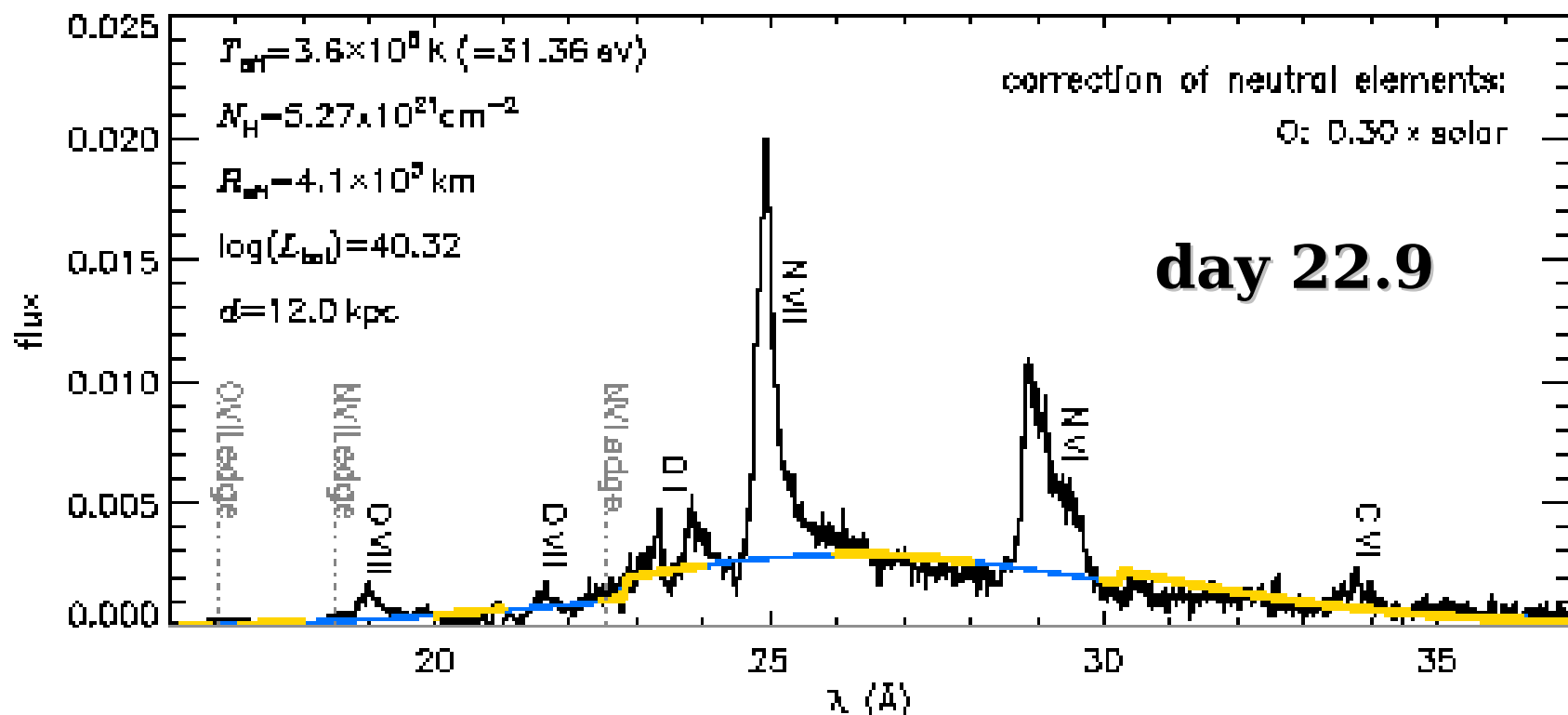
X-Ray Source

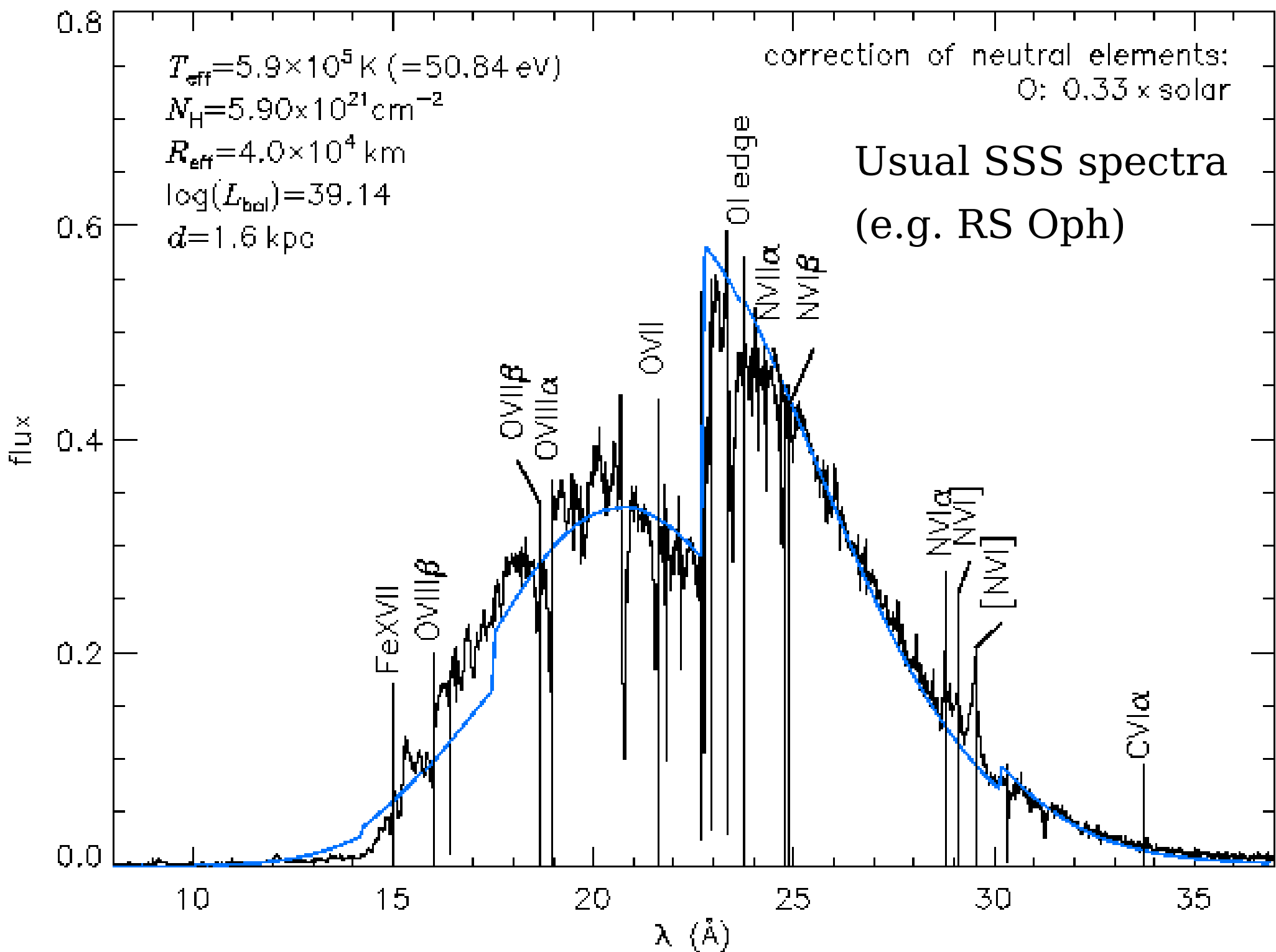


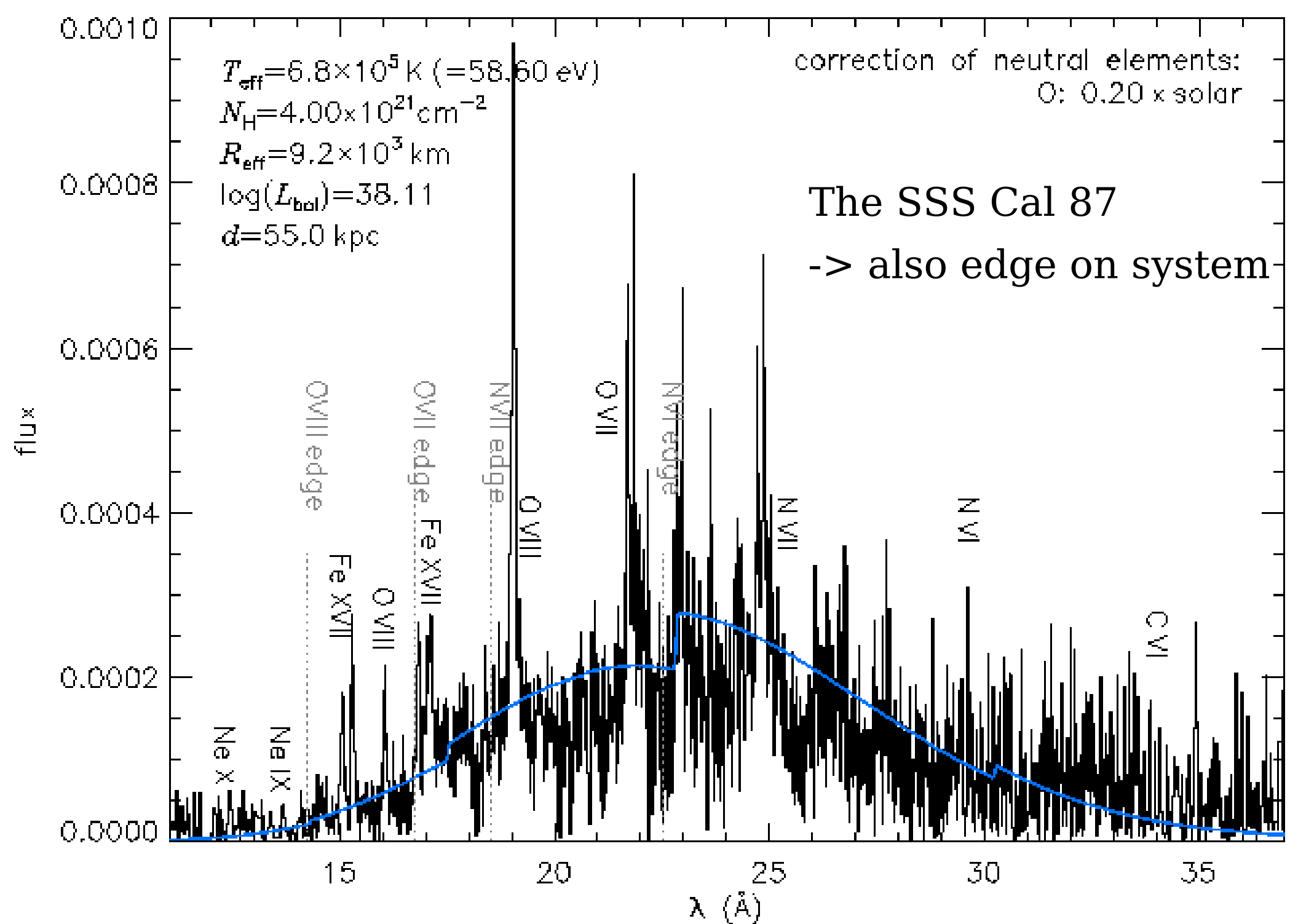




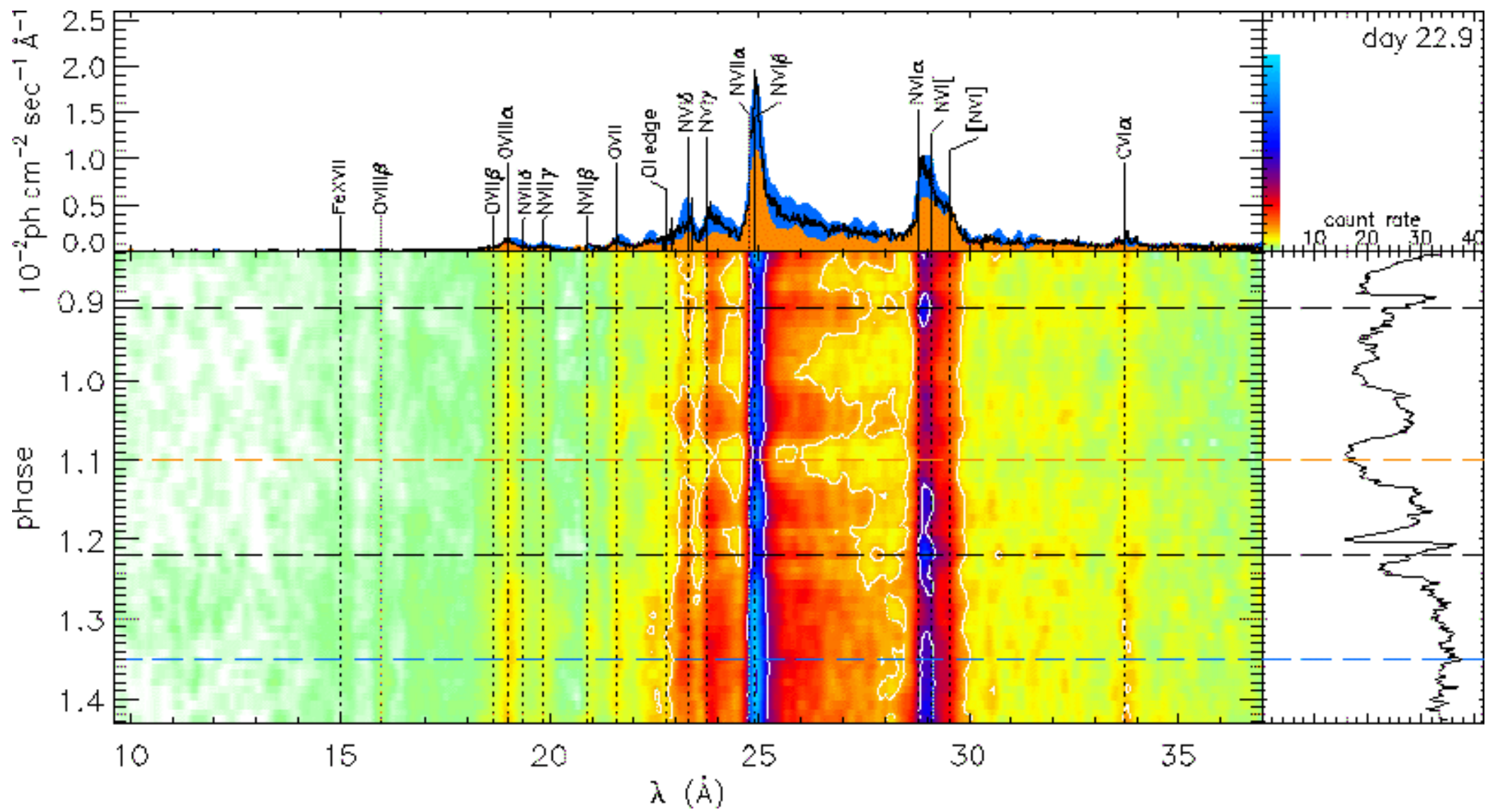


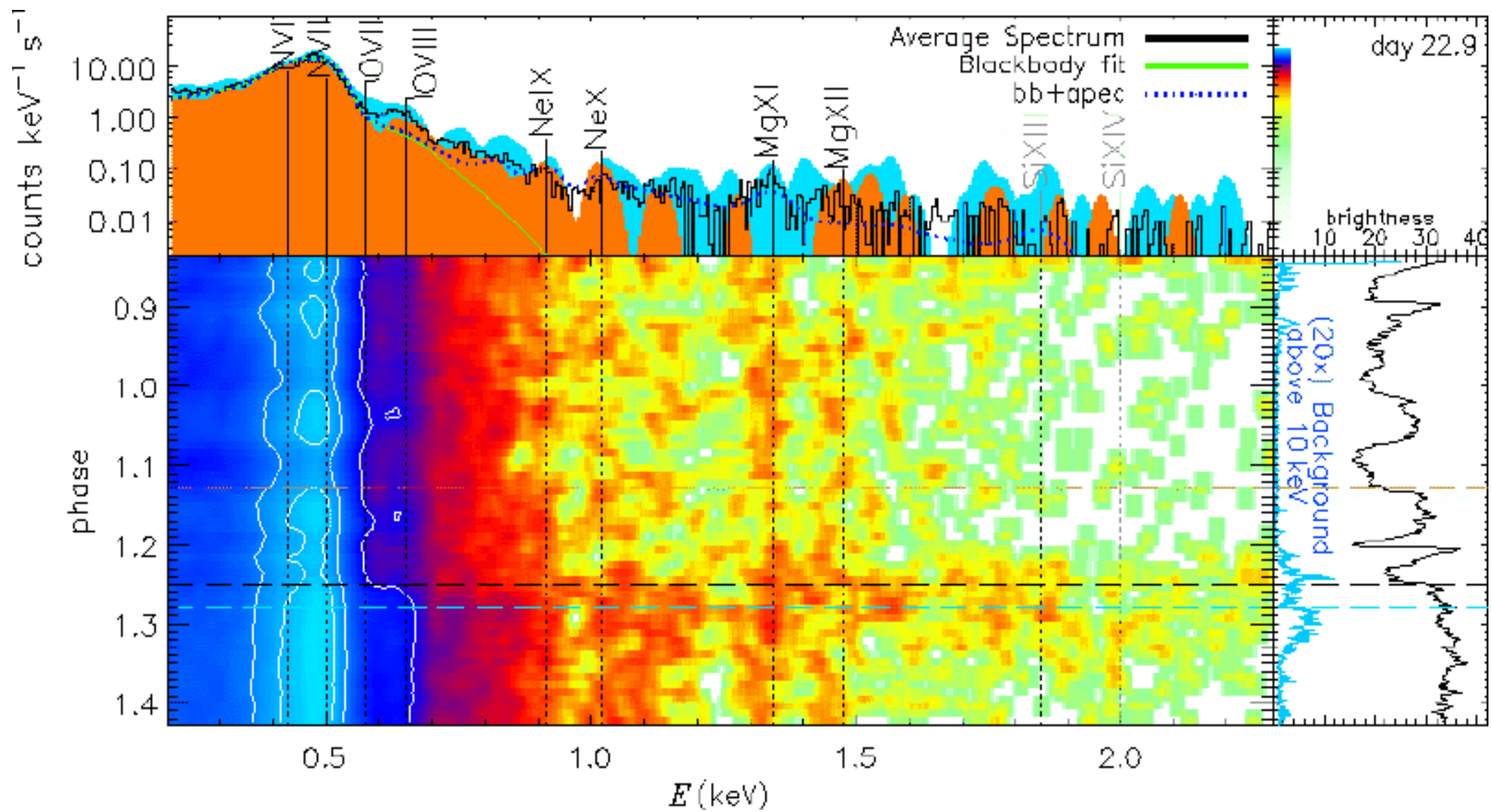


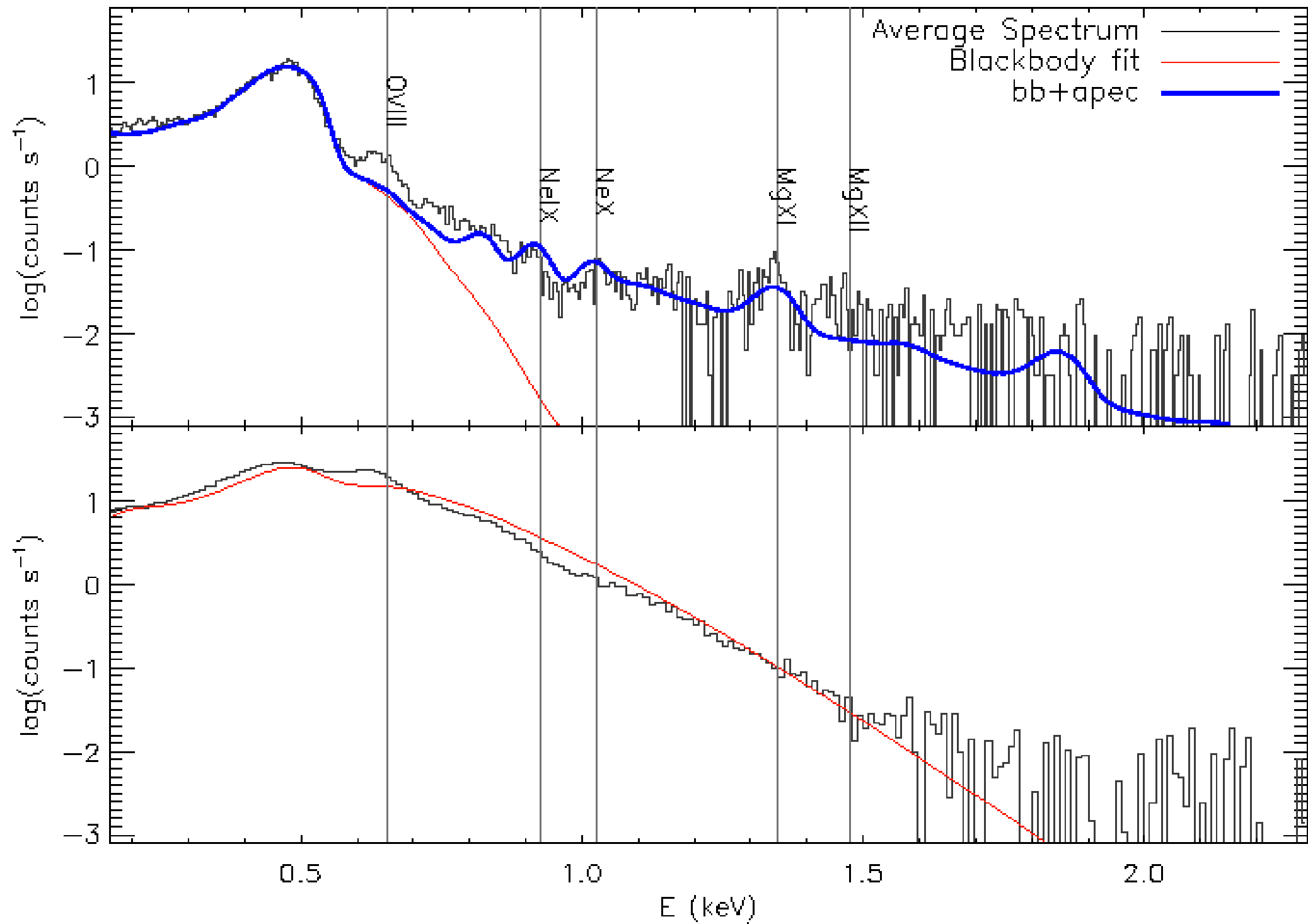


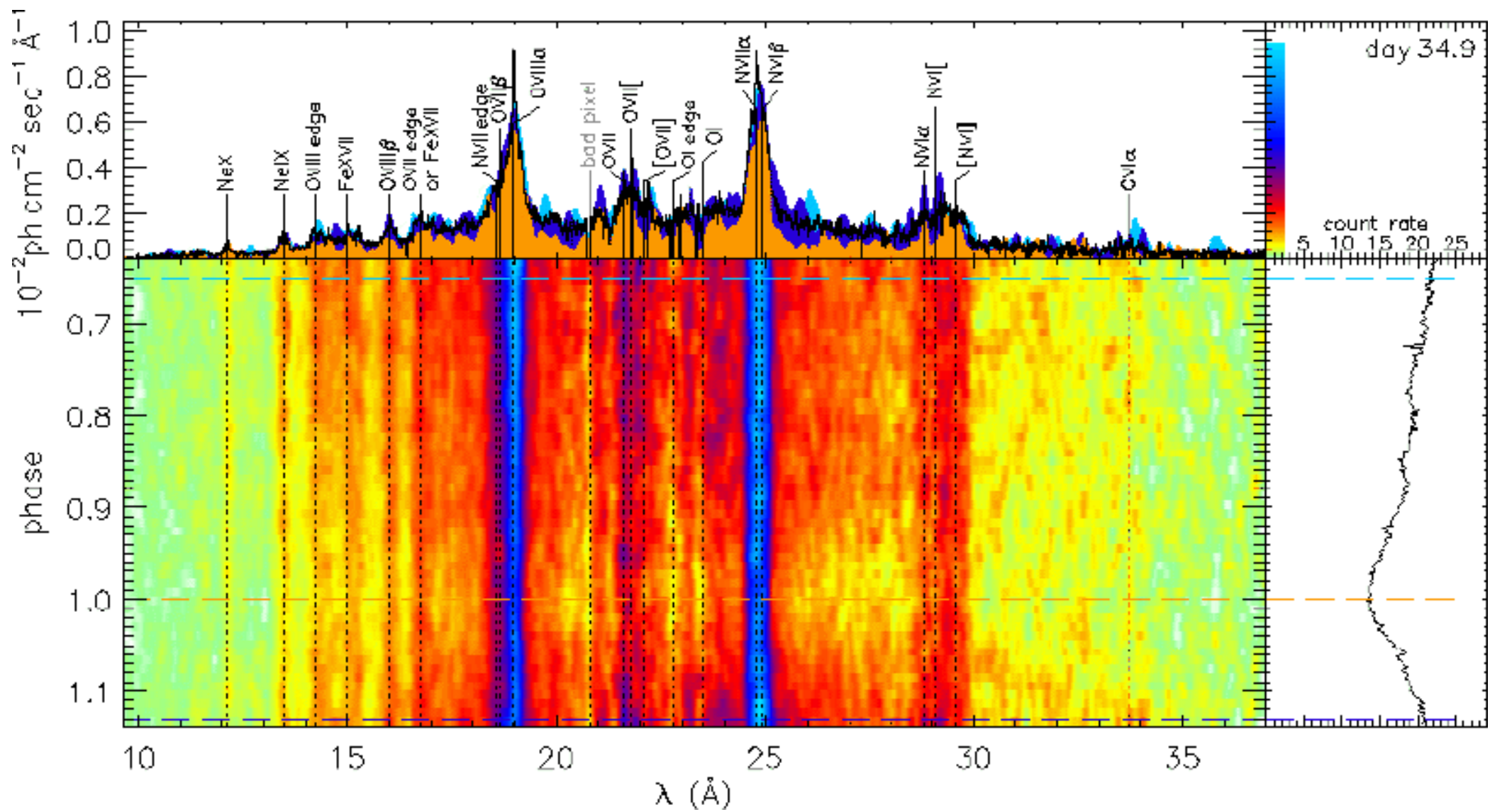


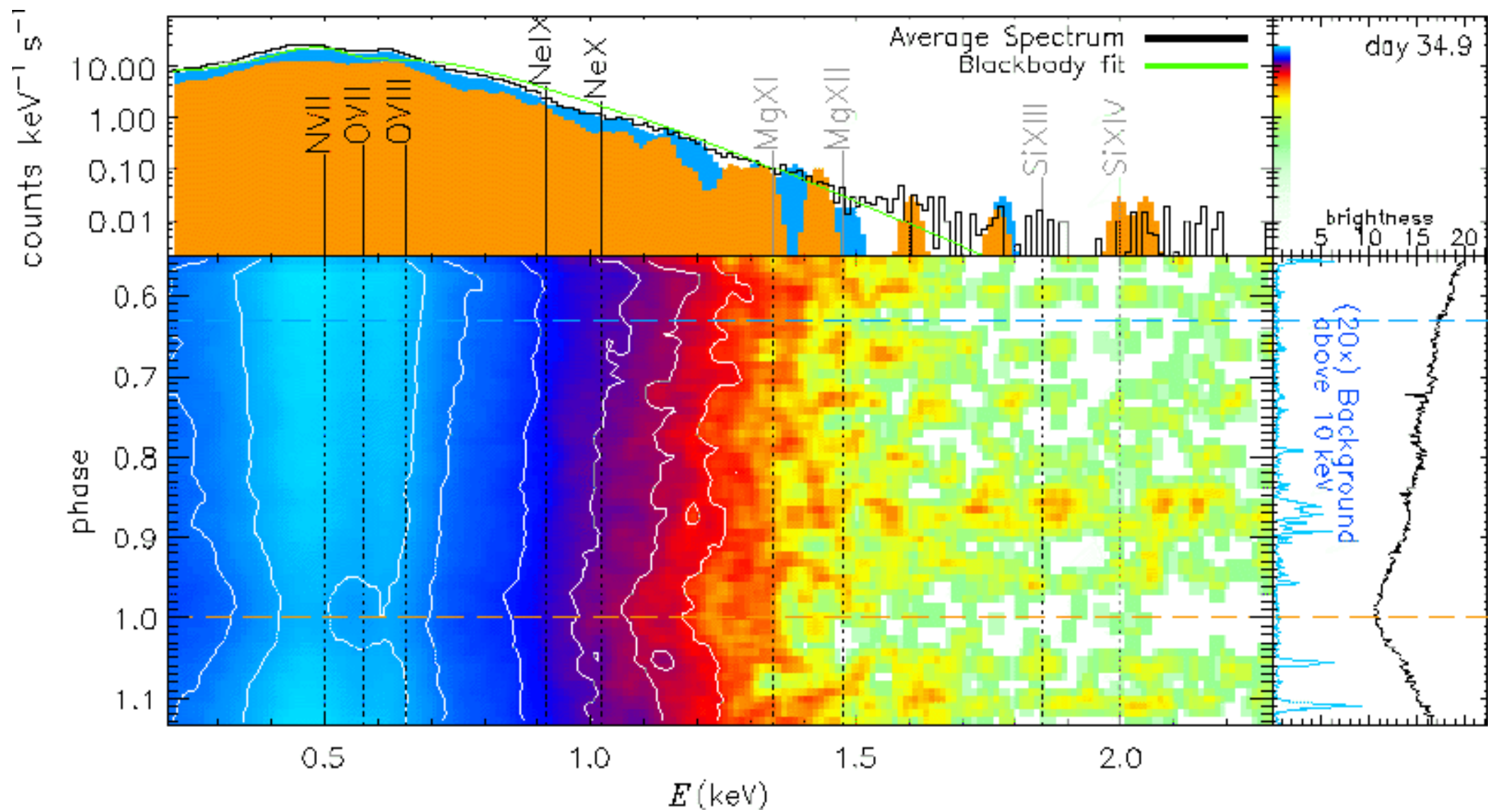


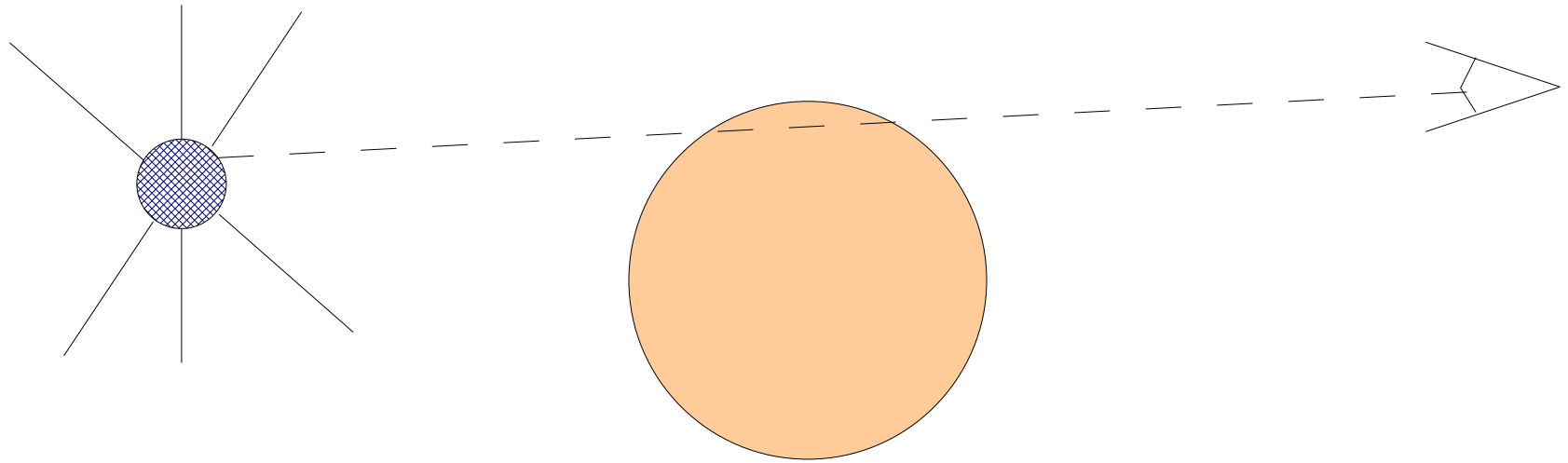
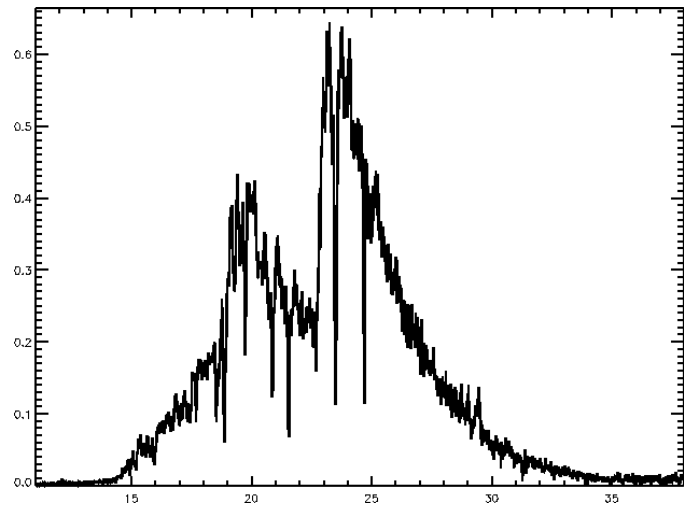


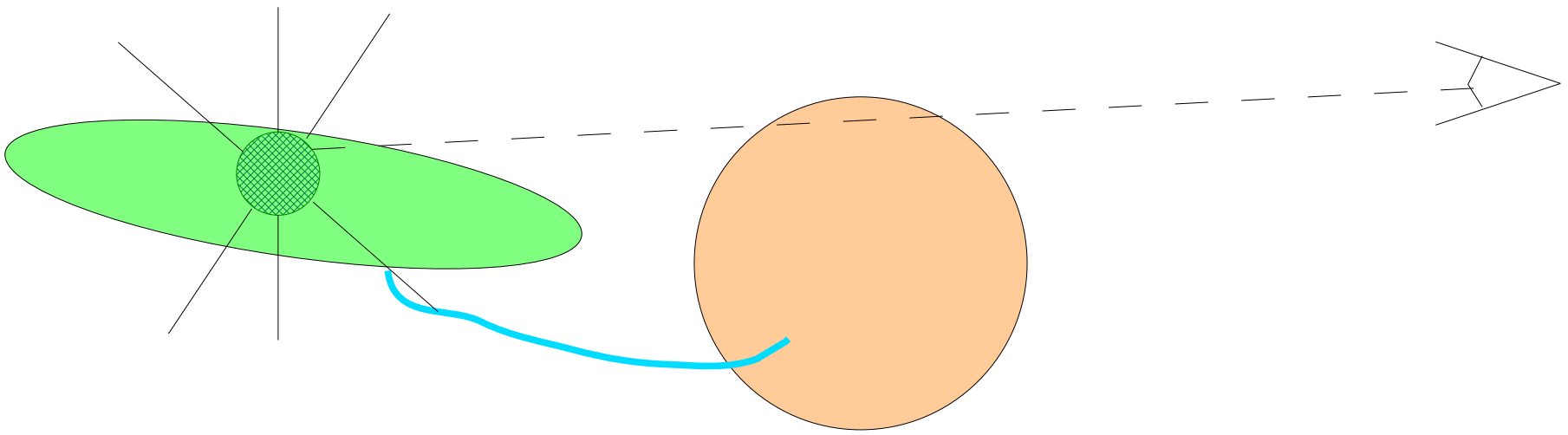




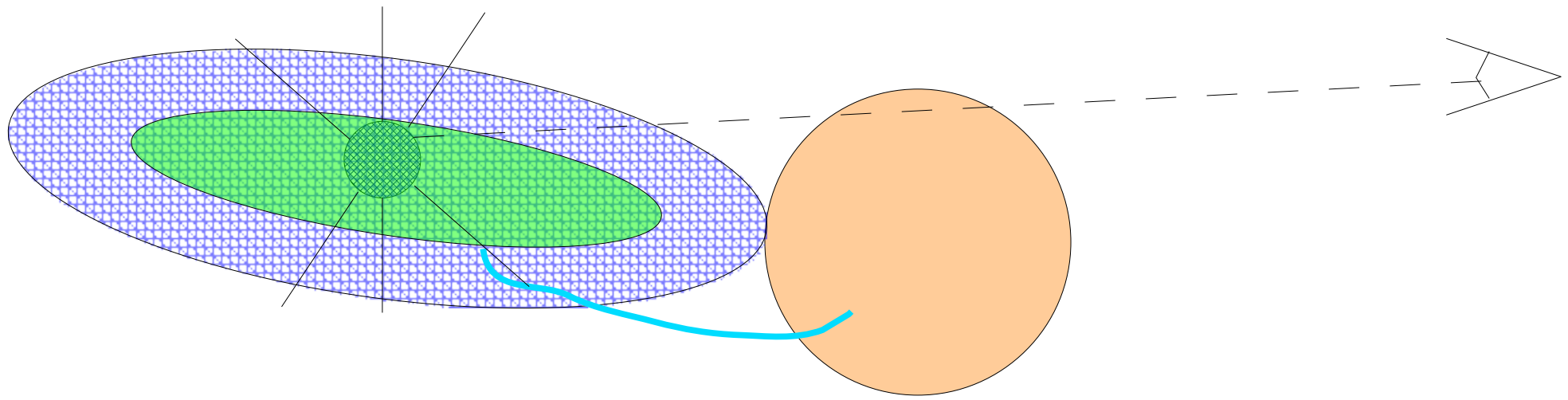








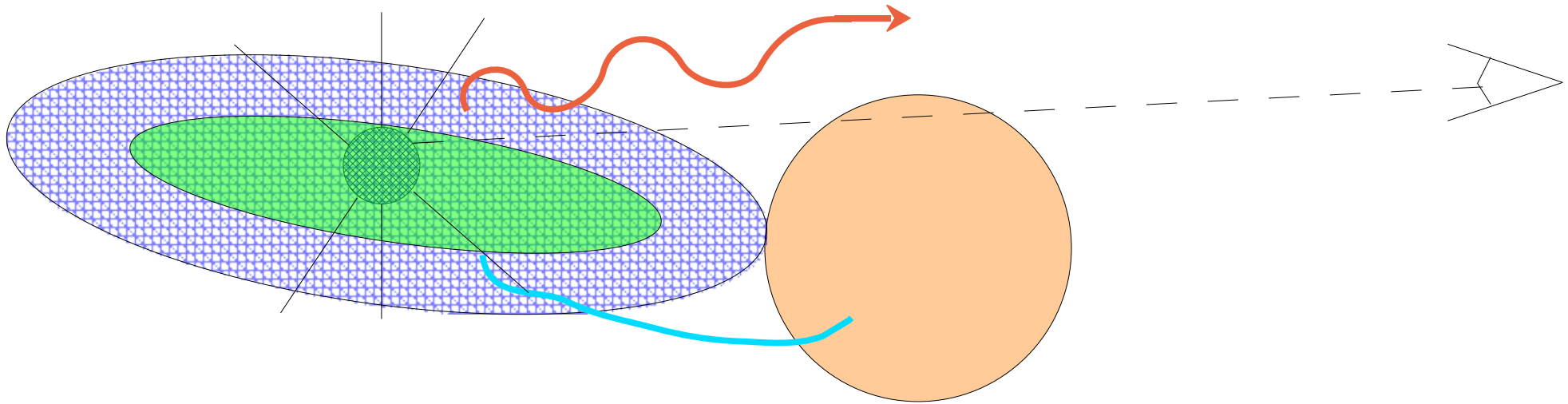
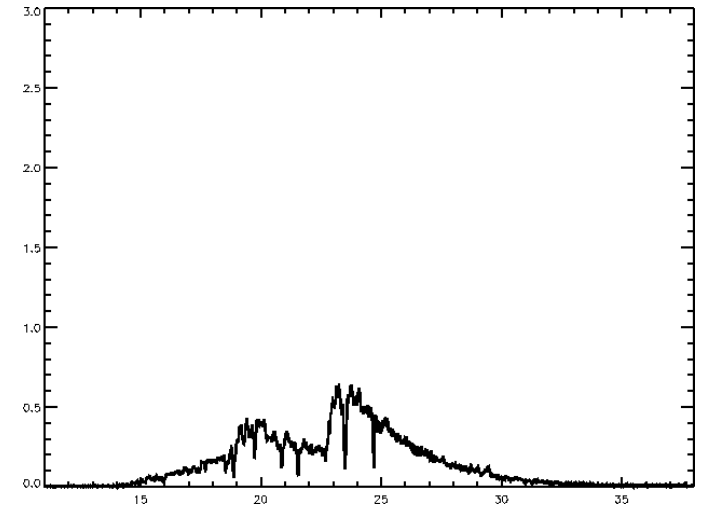
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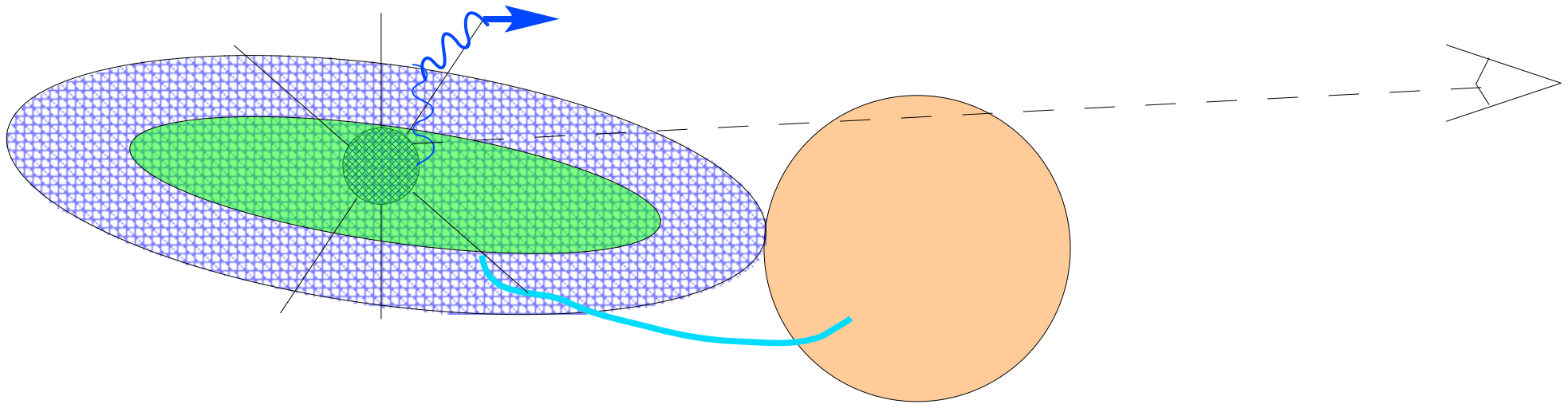
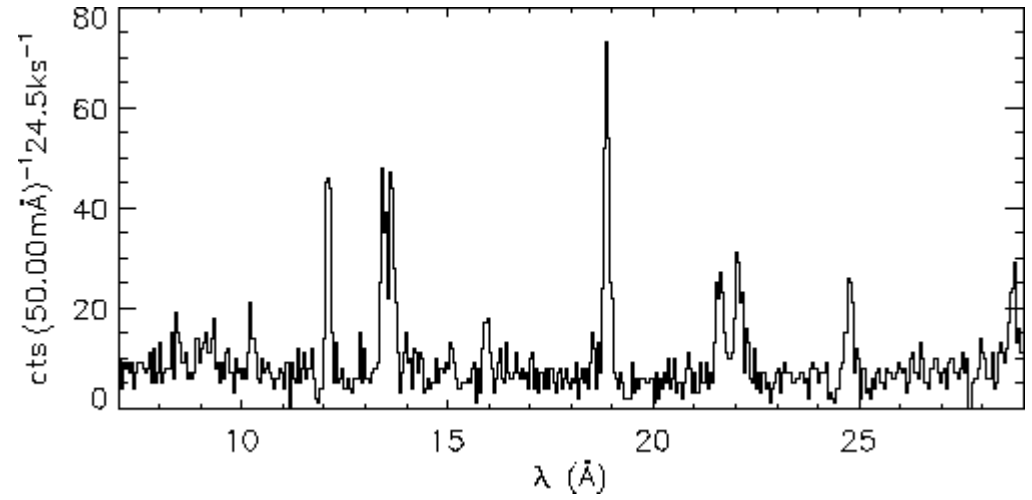
**Accretion Disk Corona**



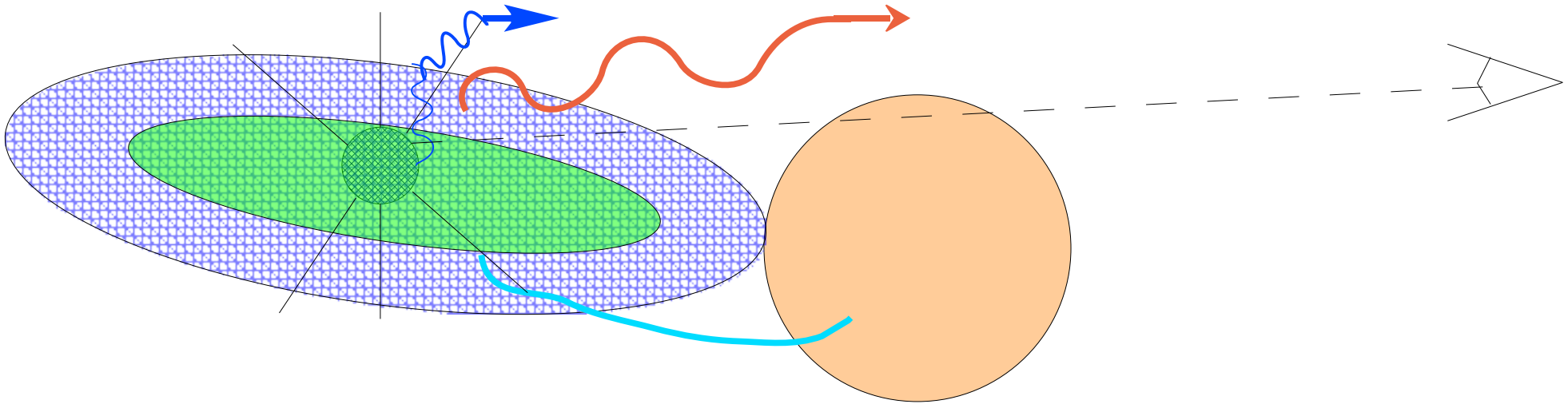
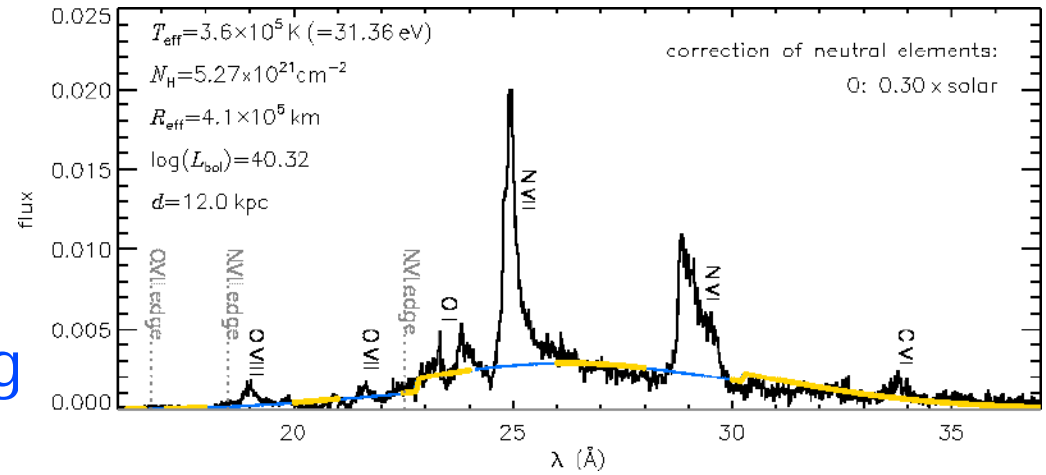
# Thompson scattering



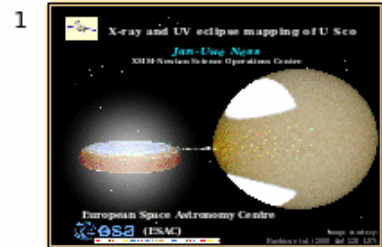
# Resonance line scattering



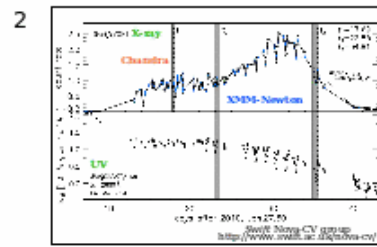
Thompson scattering  
+  
Resonance line scattering



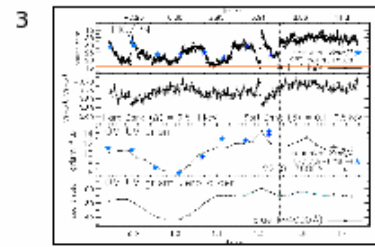
# Slides



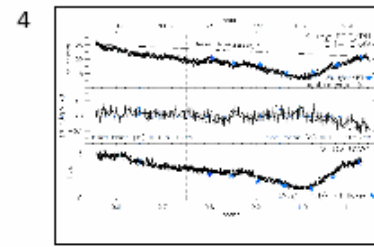
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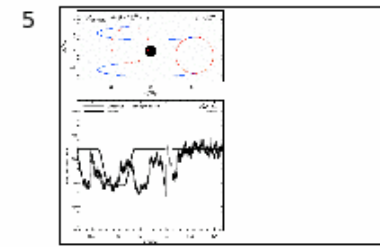
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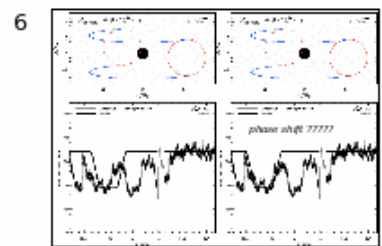
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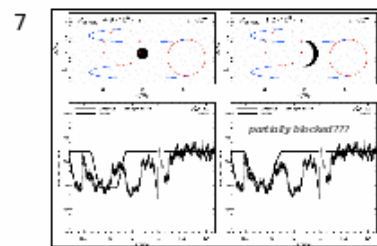
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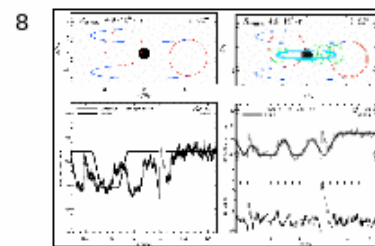
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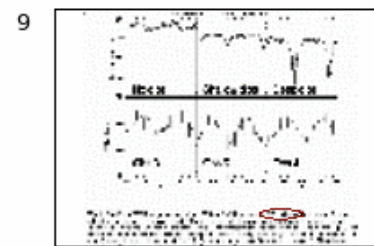
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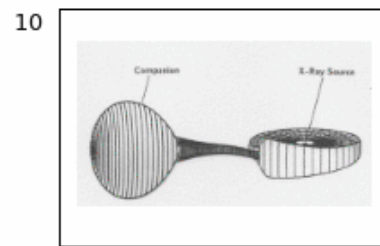
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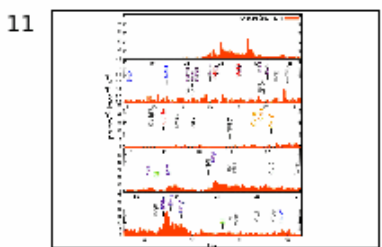
Slide 8



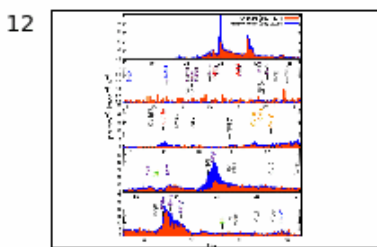
Slide 9



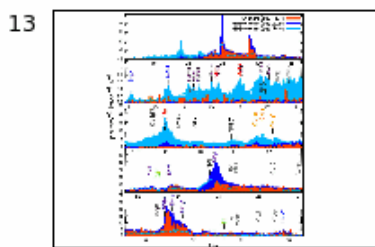
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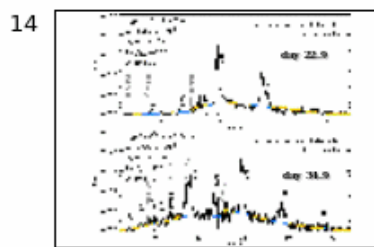
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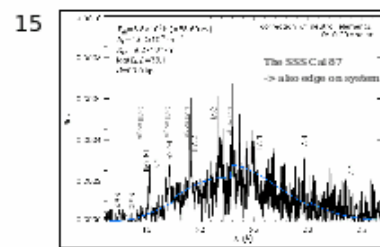
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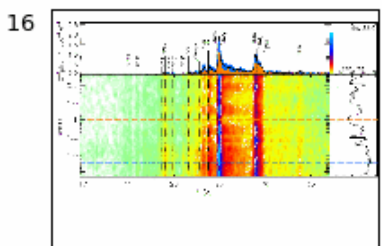
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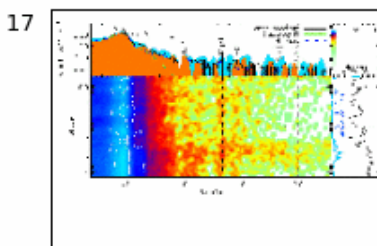
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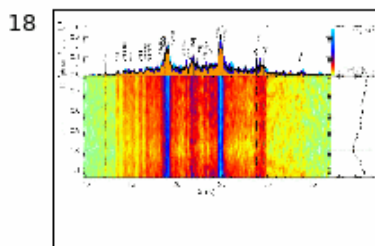
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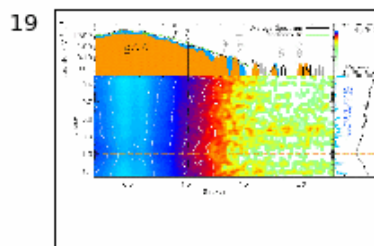
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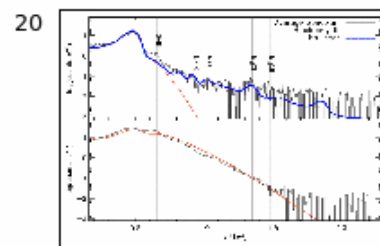
Slide 17



Slide 18



Slide 19



Slide 20