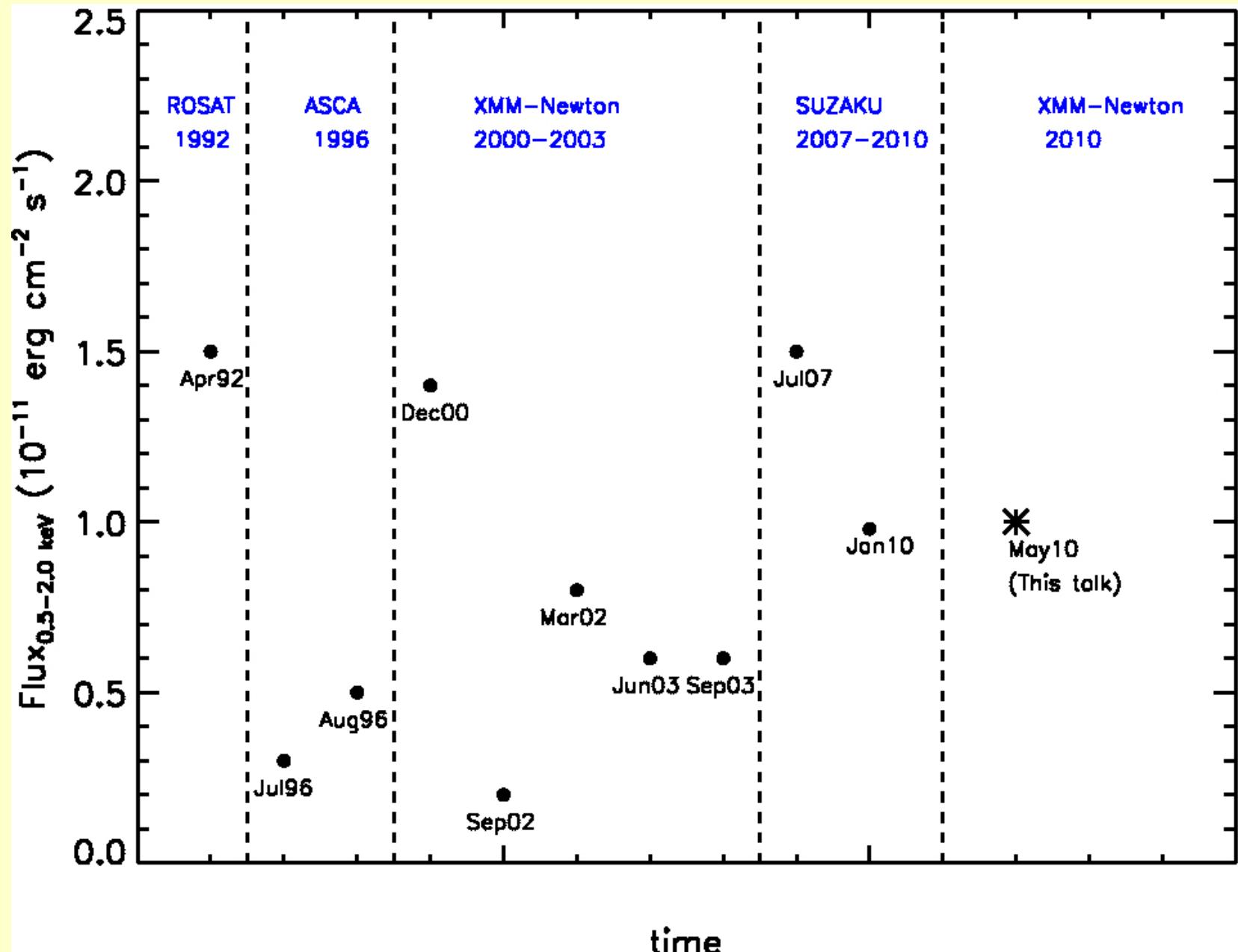
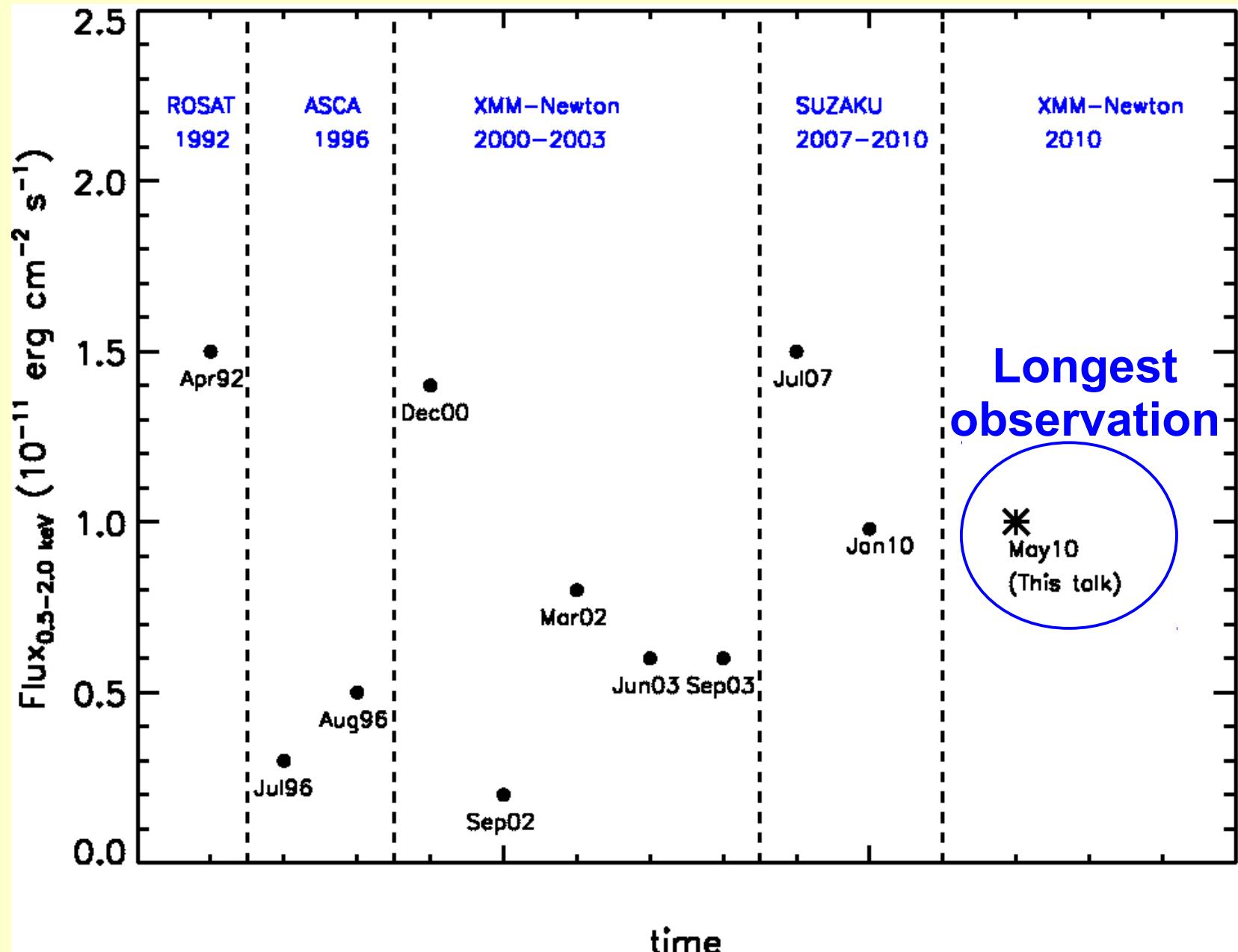


# **X-ray/UV observation of 1H 0419-577**

# 1H 0419-577: a variable Seyfert 1



# 1H 0419-577: a variable Seyfert 1



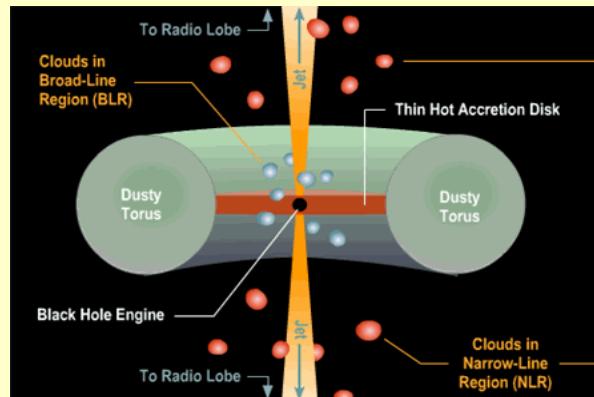
# An X-ray UV campaign



Simultaneous



XMM-Newton  
167 ks



HST/COS  
19 ks

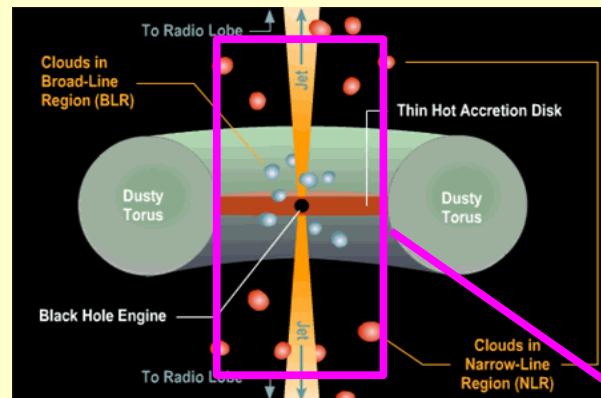
# An X-ray UV campaign



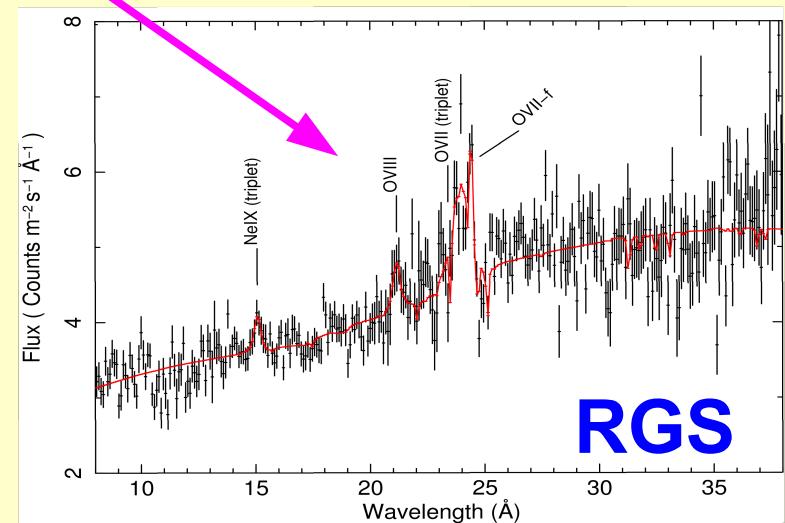
Simultaneous



XMM-Newton  
167 ks

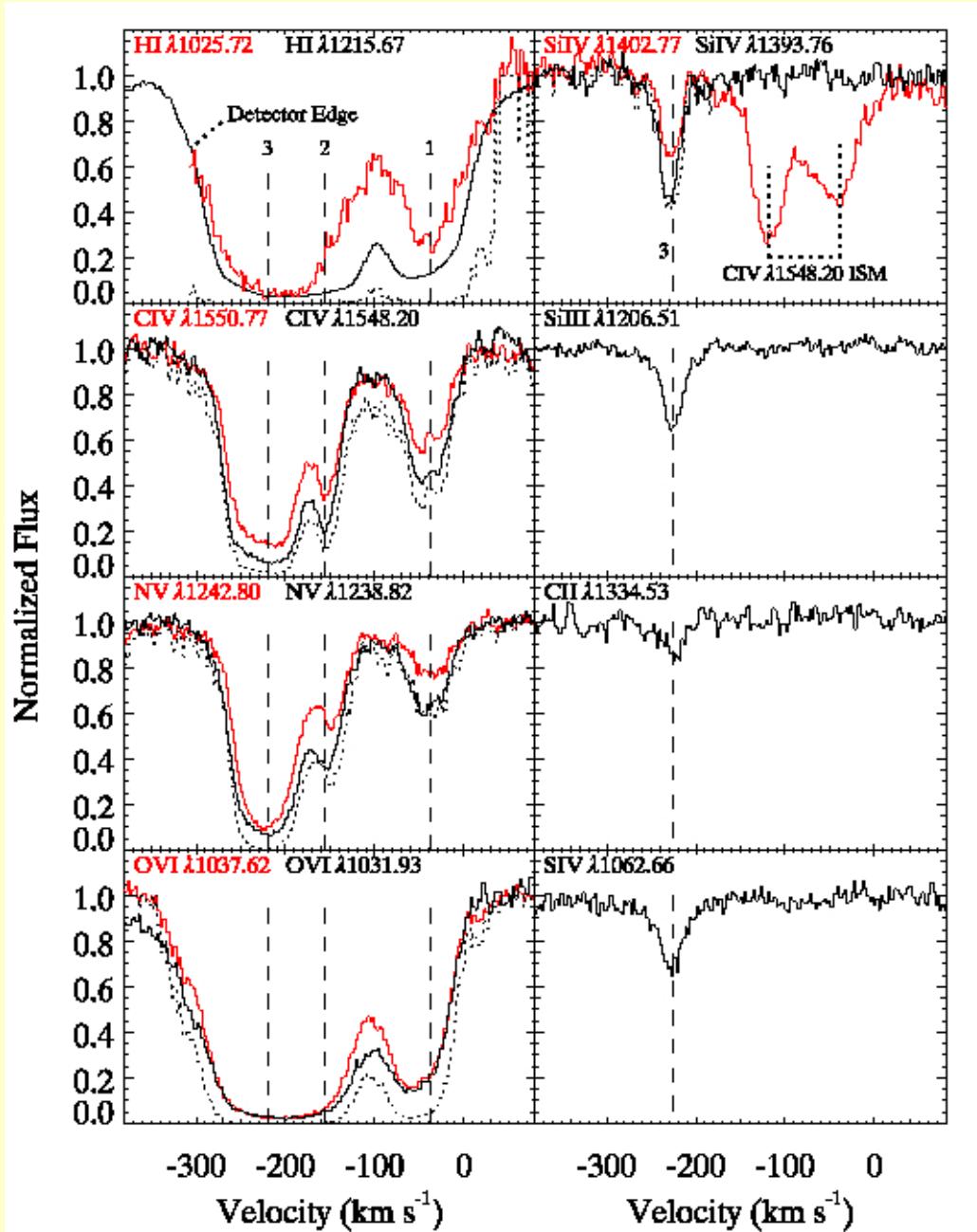


HST/COS  
19 ks

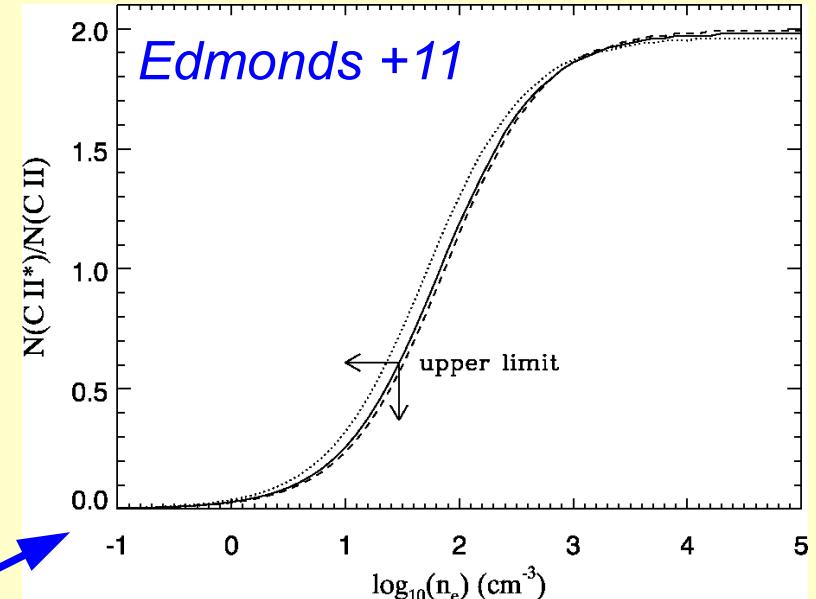
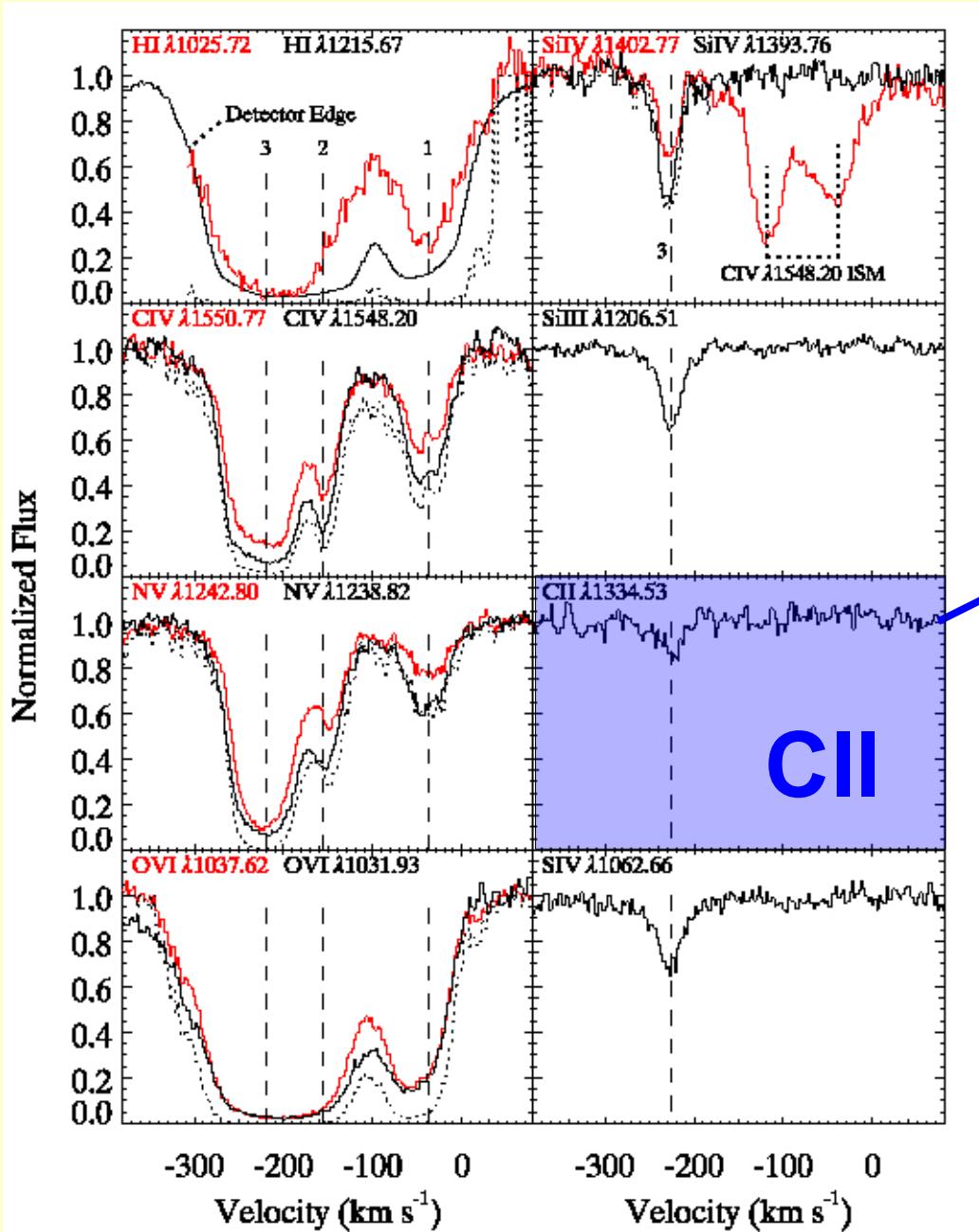


RGS

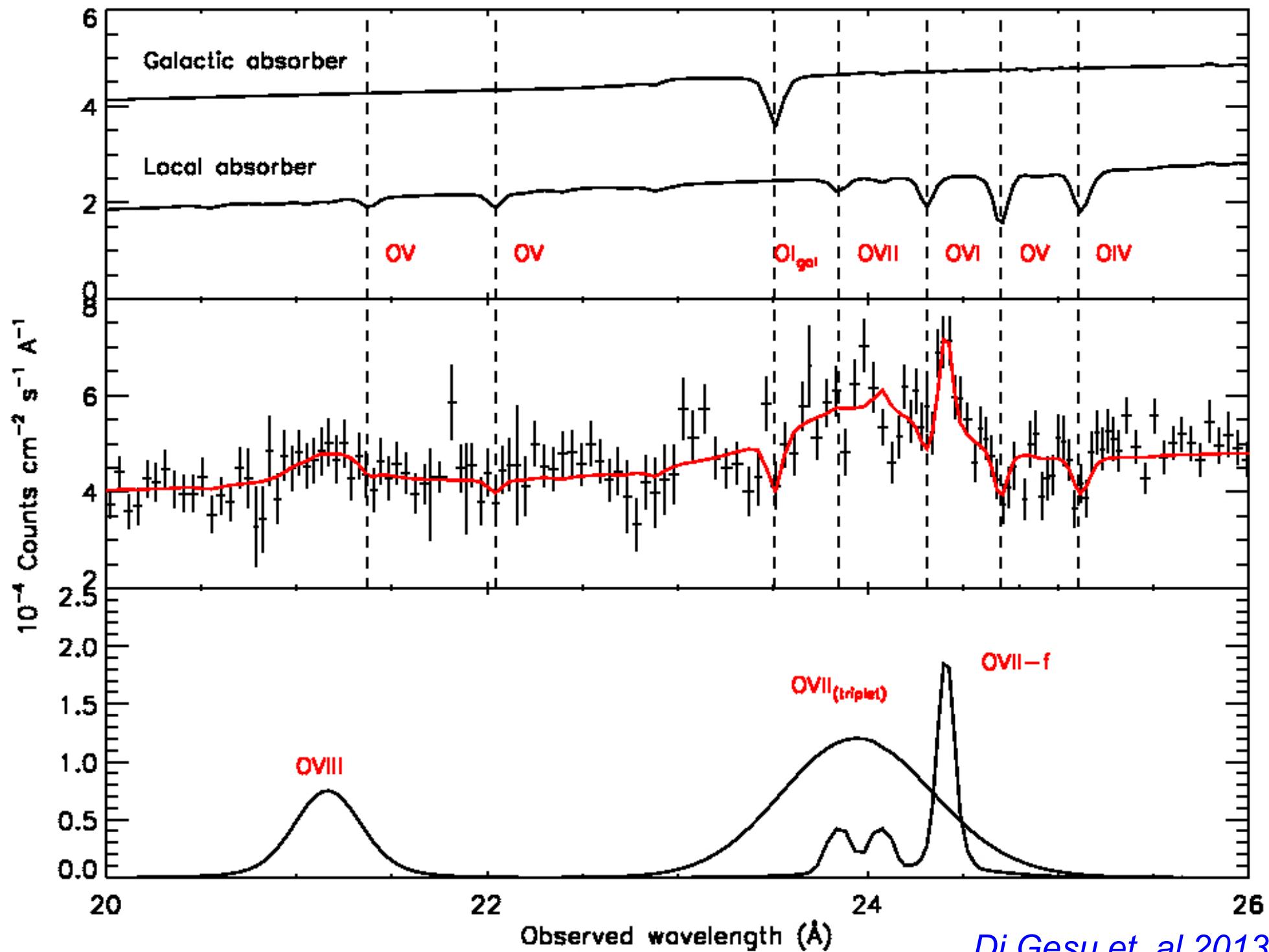
# The UV point of view



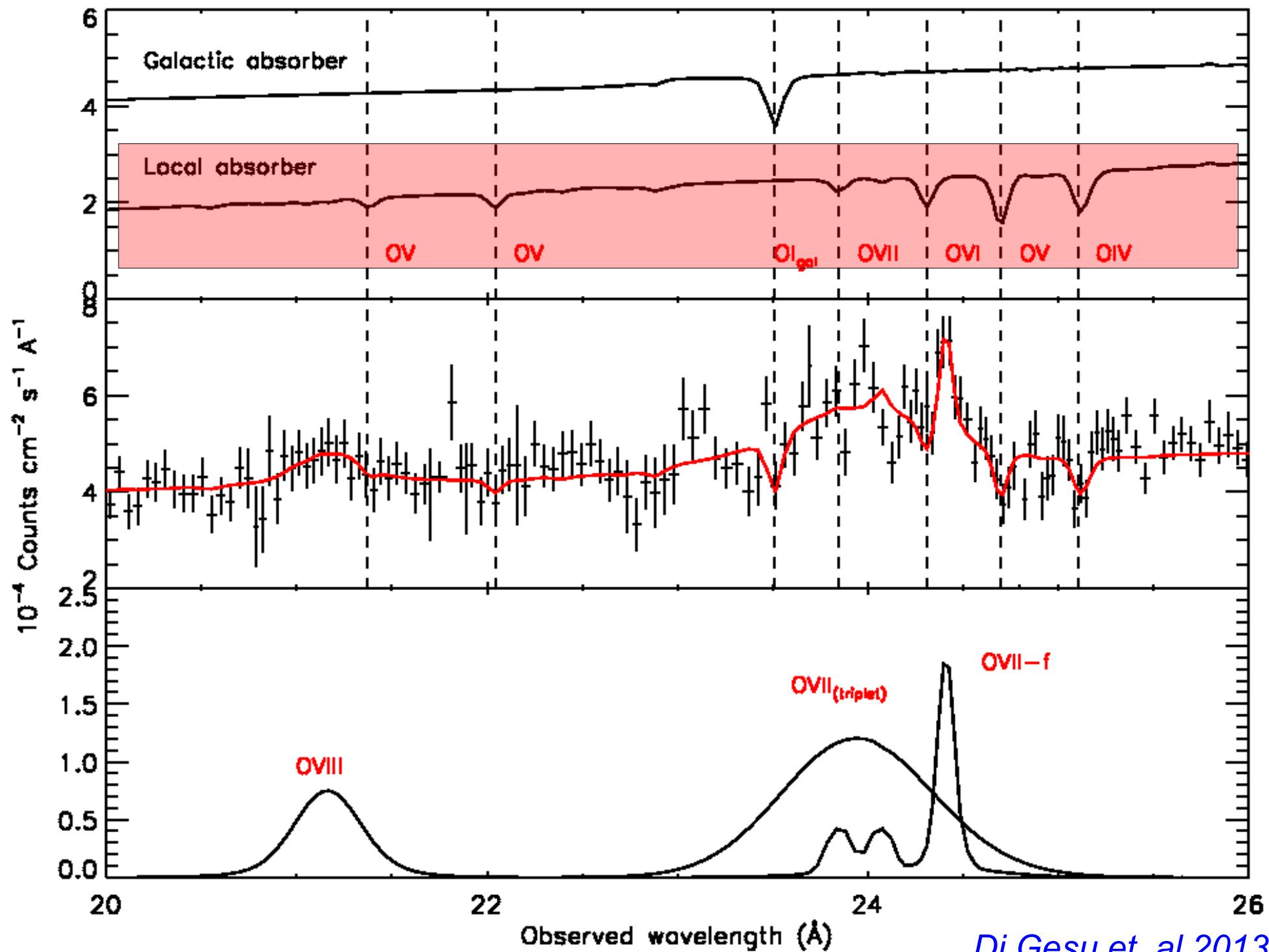
# The UV point of view

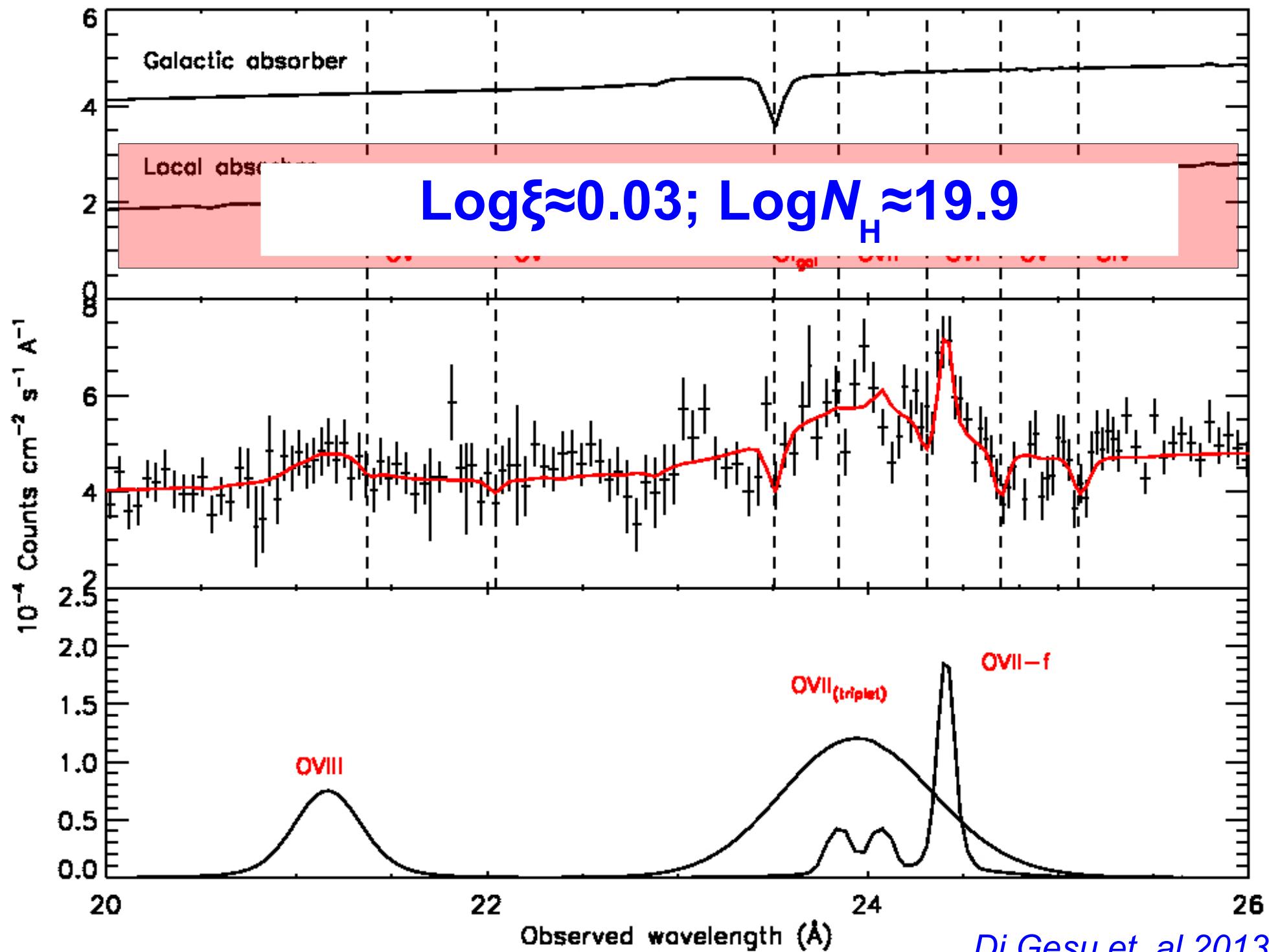


→ The non detection of the excited CII\* line provides an upper limit for the gas density.



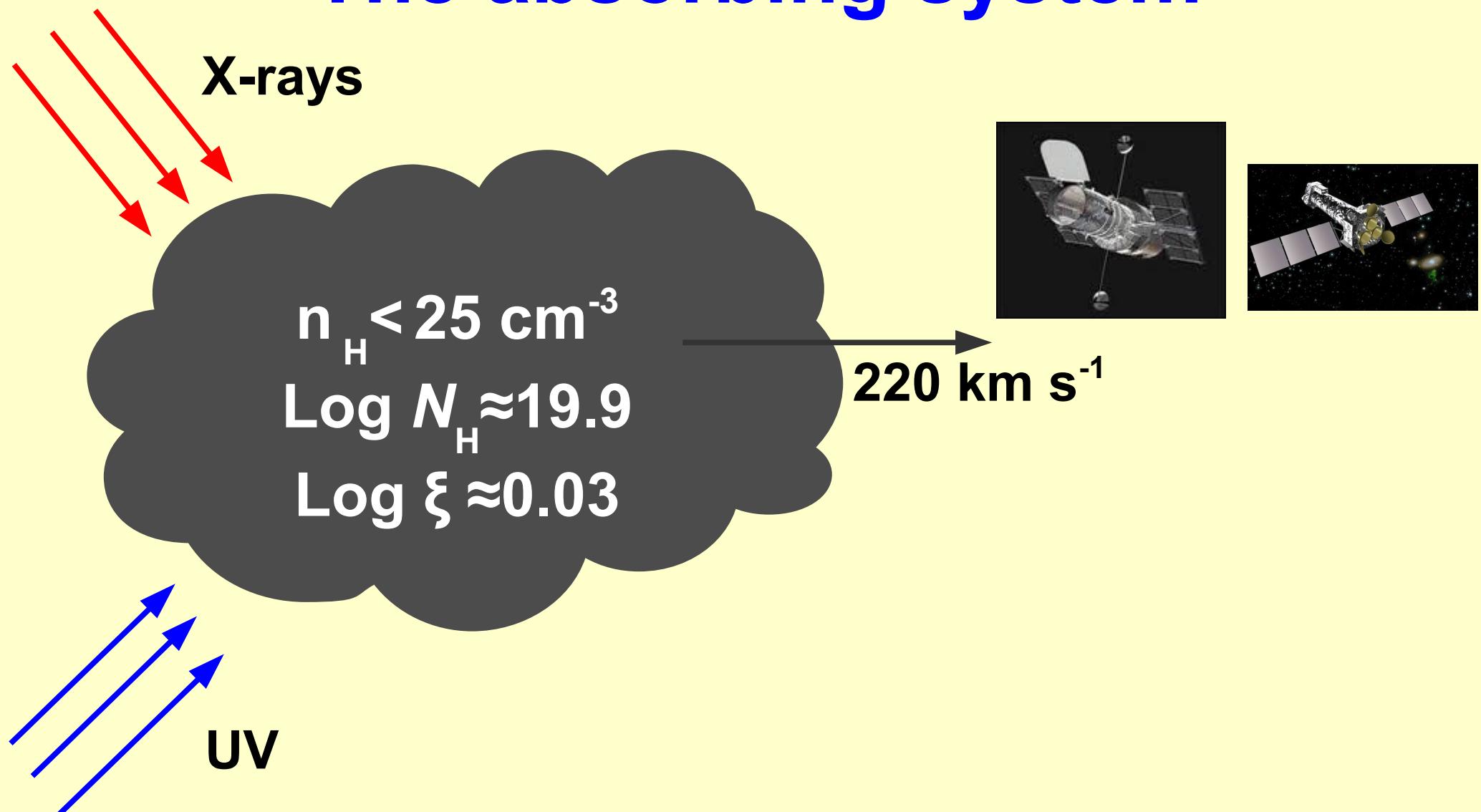
Di Gesu et al 2013



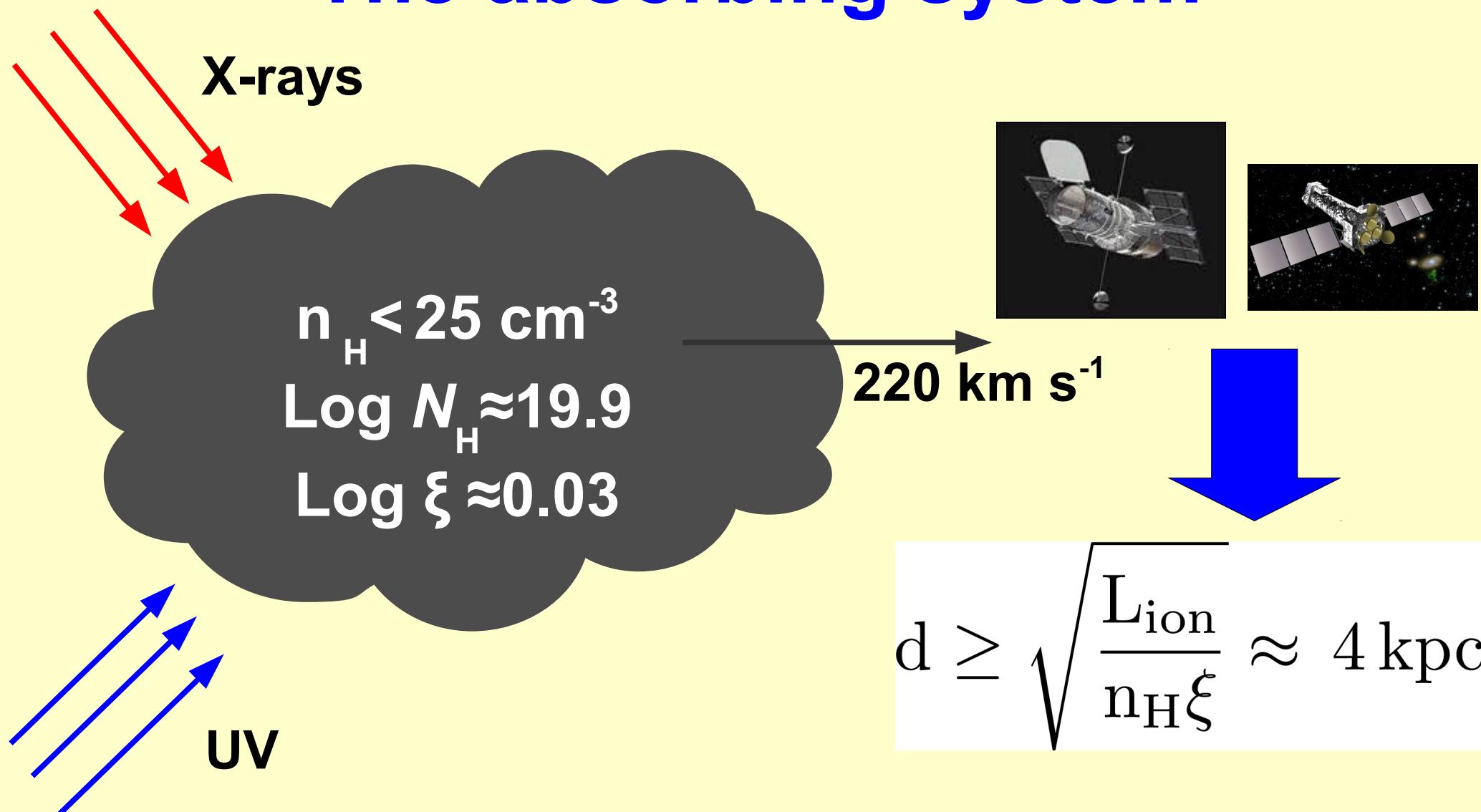


Di Gesu et al 2013

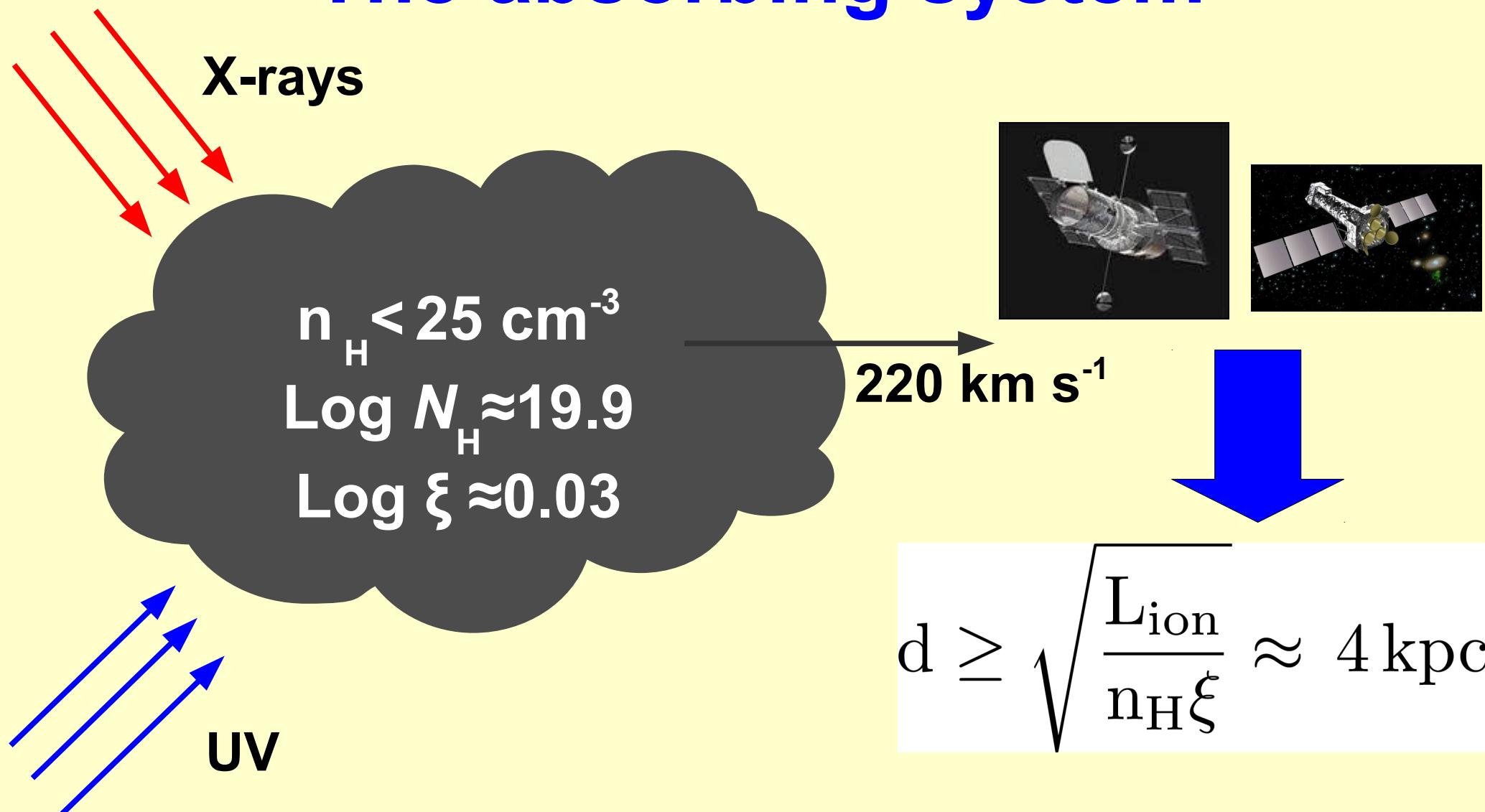
# The absorbing system



# The absorbing system



# The absorbing system

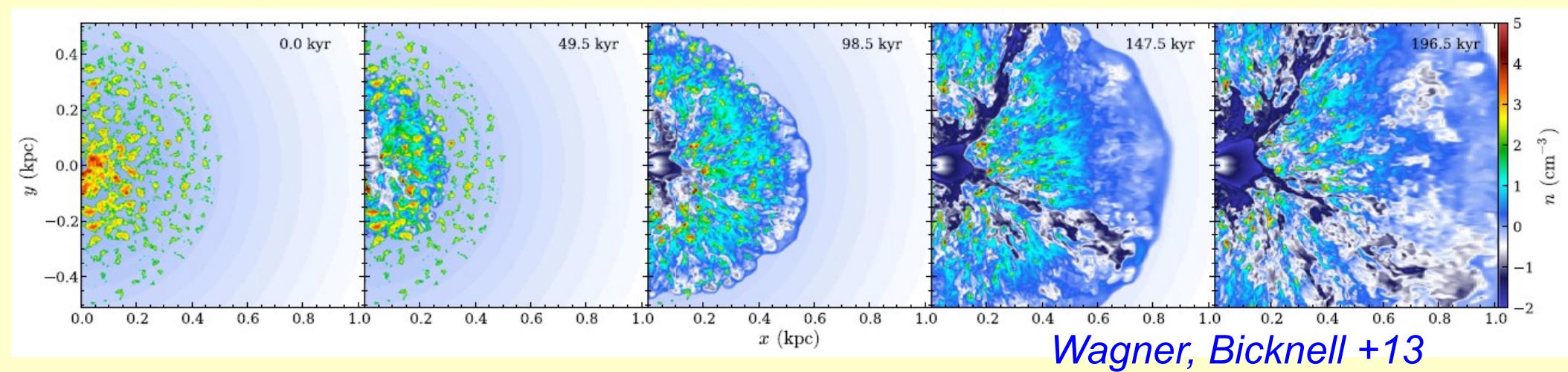


→First example of a galactic scale X-ray absorber.

# What are we witnessing here?

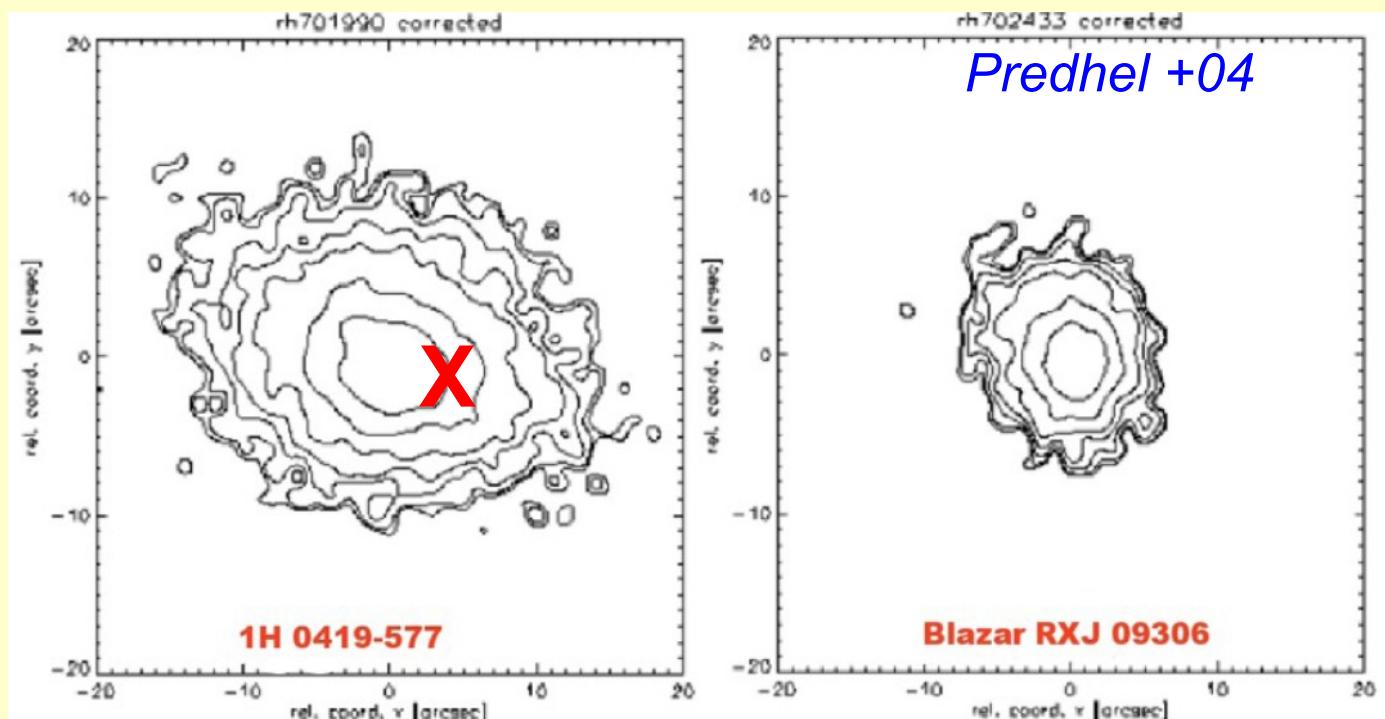
- Models for AGN driven feedback suggests that ionized disk winds may shock against the ISM and accelerate a galactic scale outflow
- Are we observing here this process in a late stage of evolution?

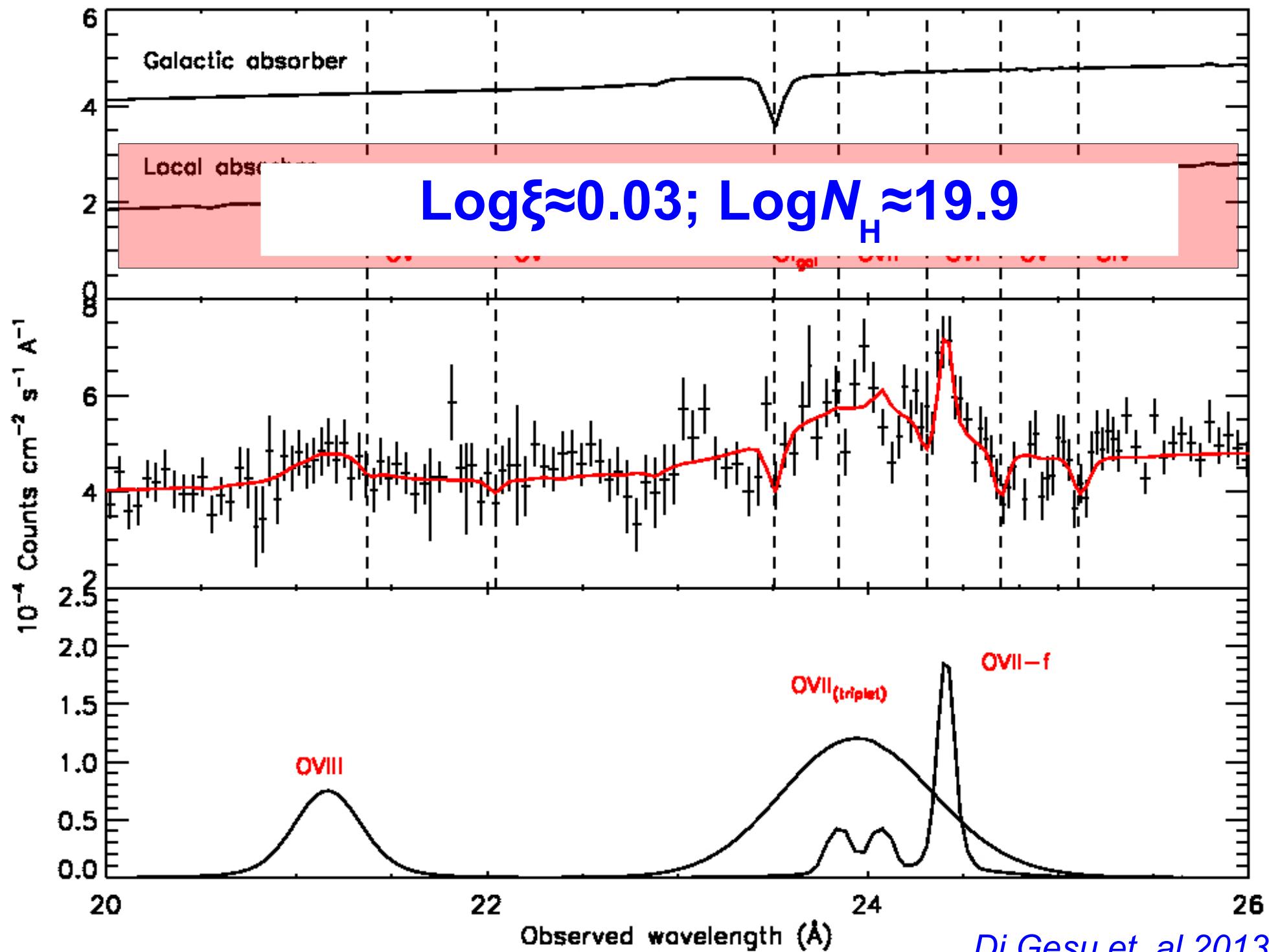
1H 0419-577?



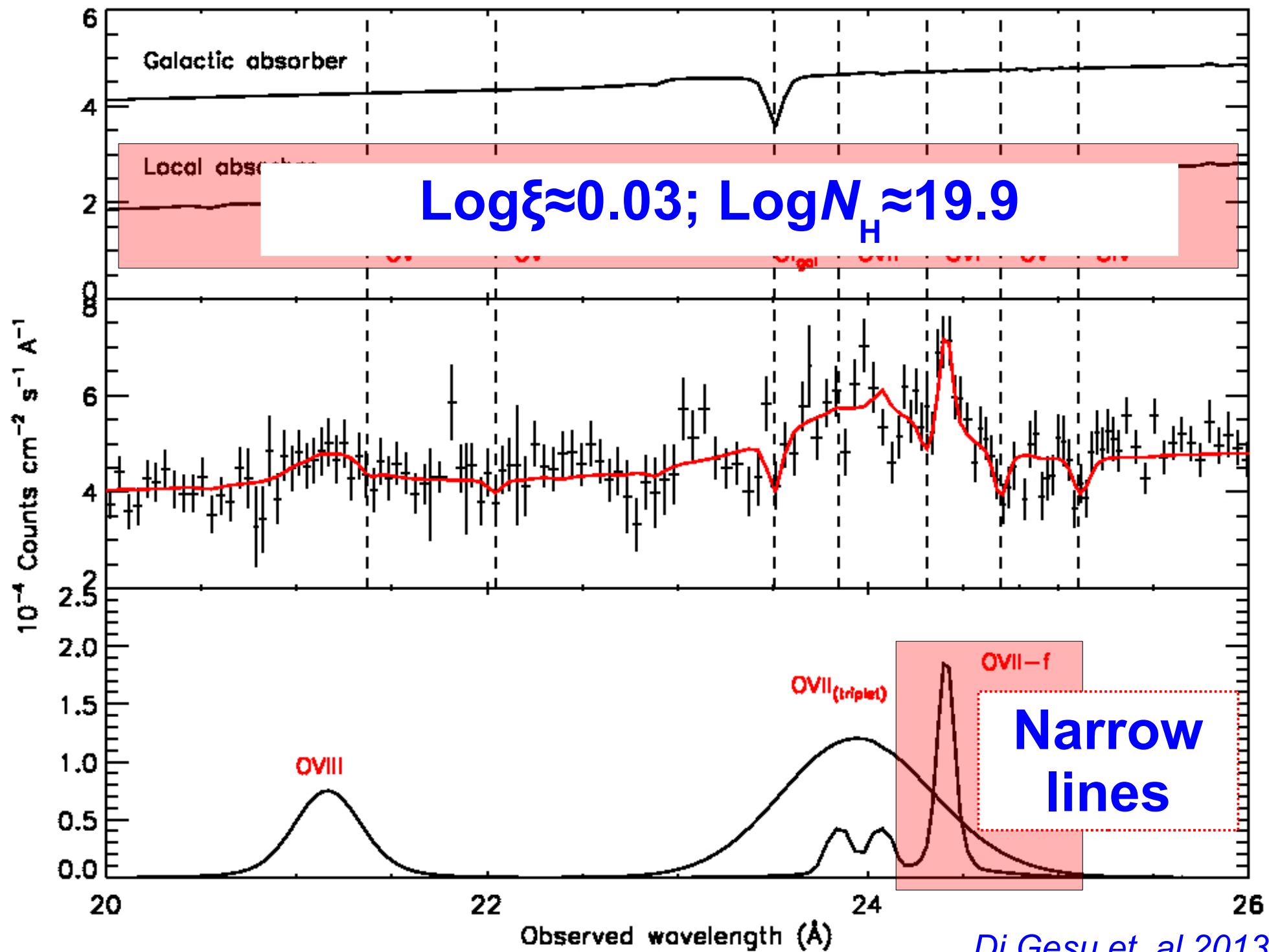
# Follow-up

- We have to know whether the X-ray absorbing gas is entrained in a larger scale structure.
- We already obtained a Chandra follow up to image the extended X-ray emission from this source.

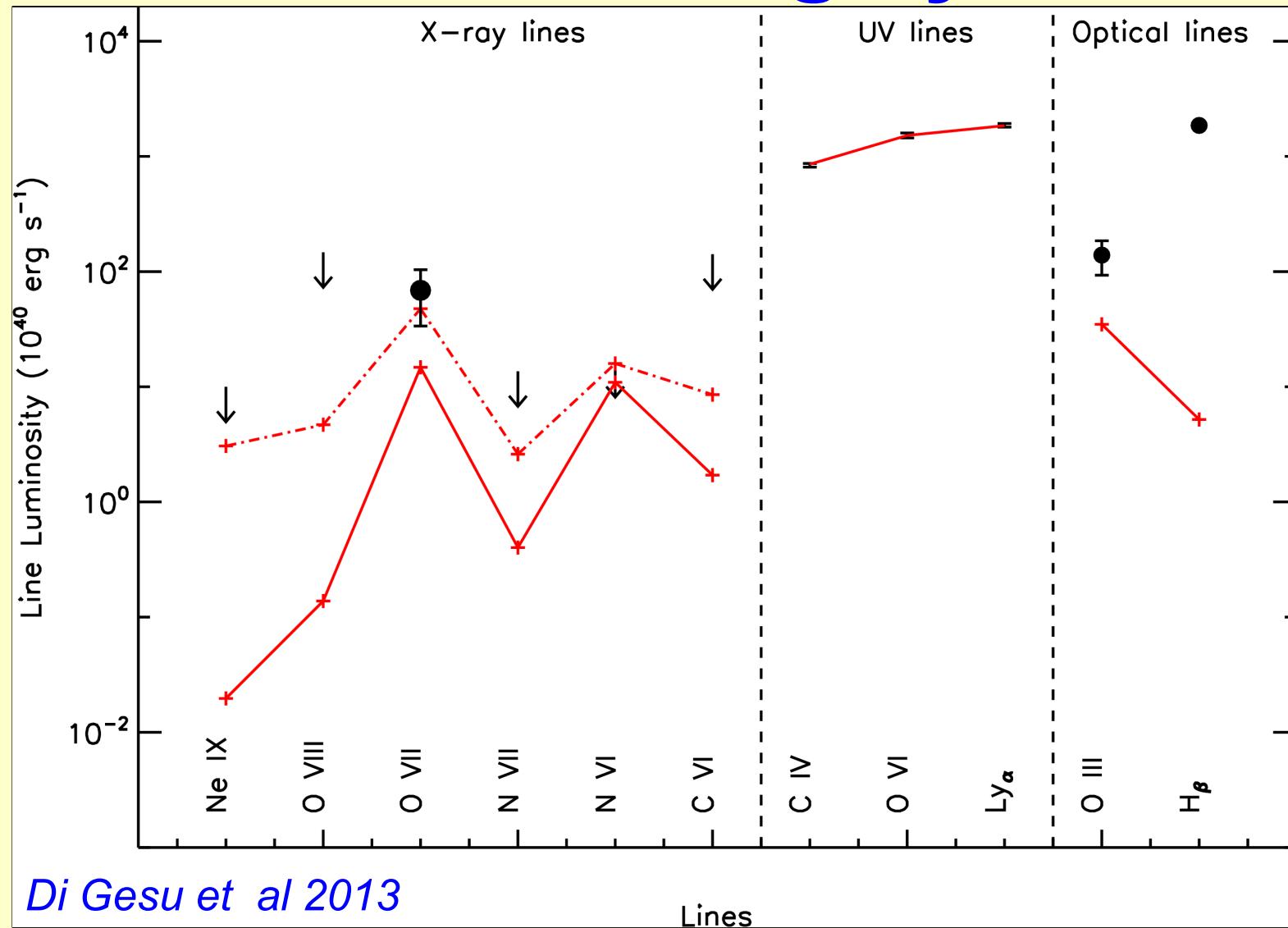




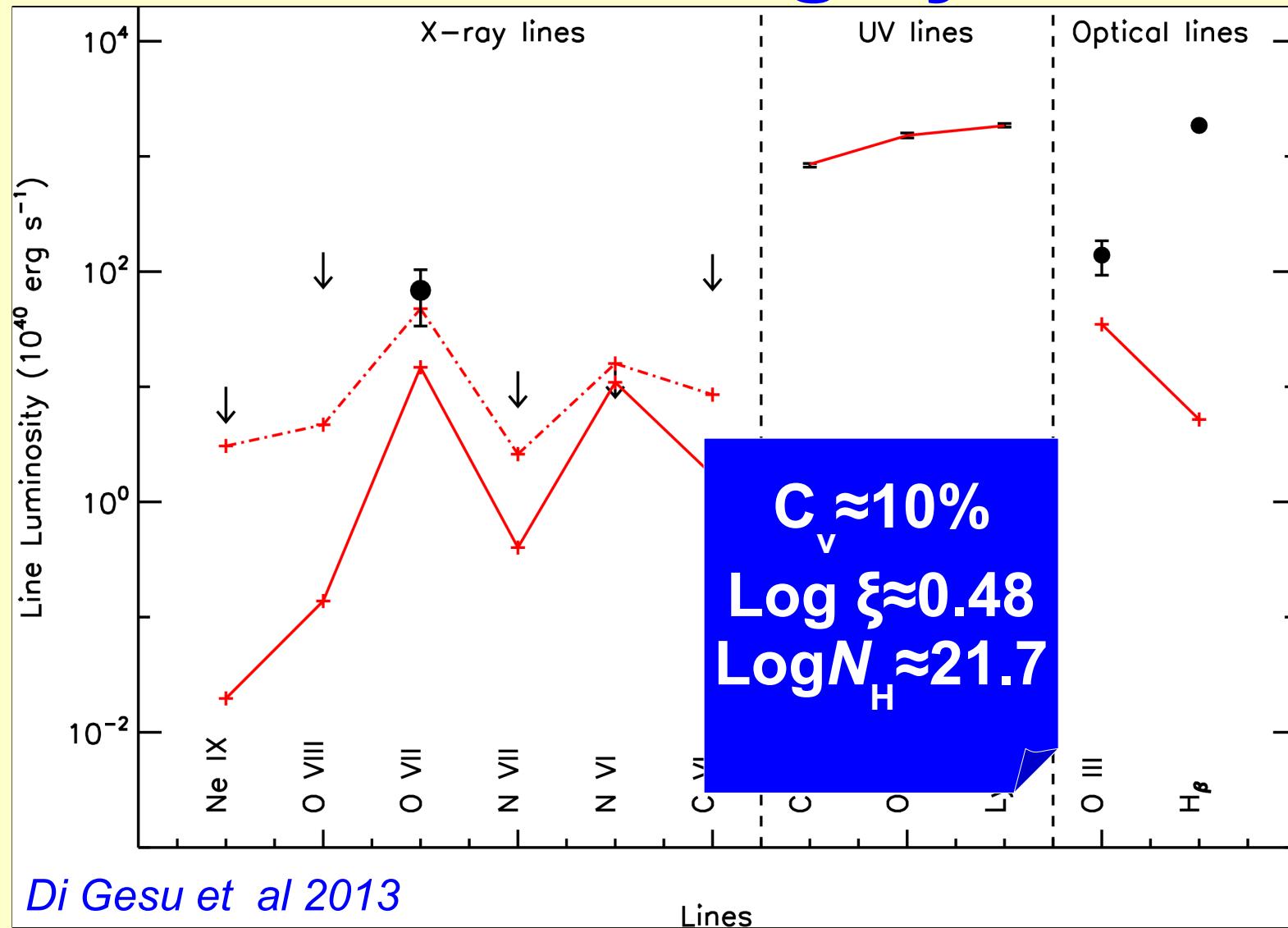
Di Gesu et al 2013



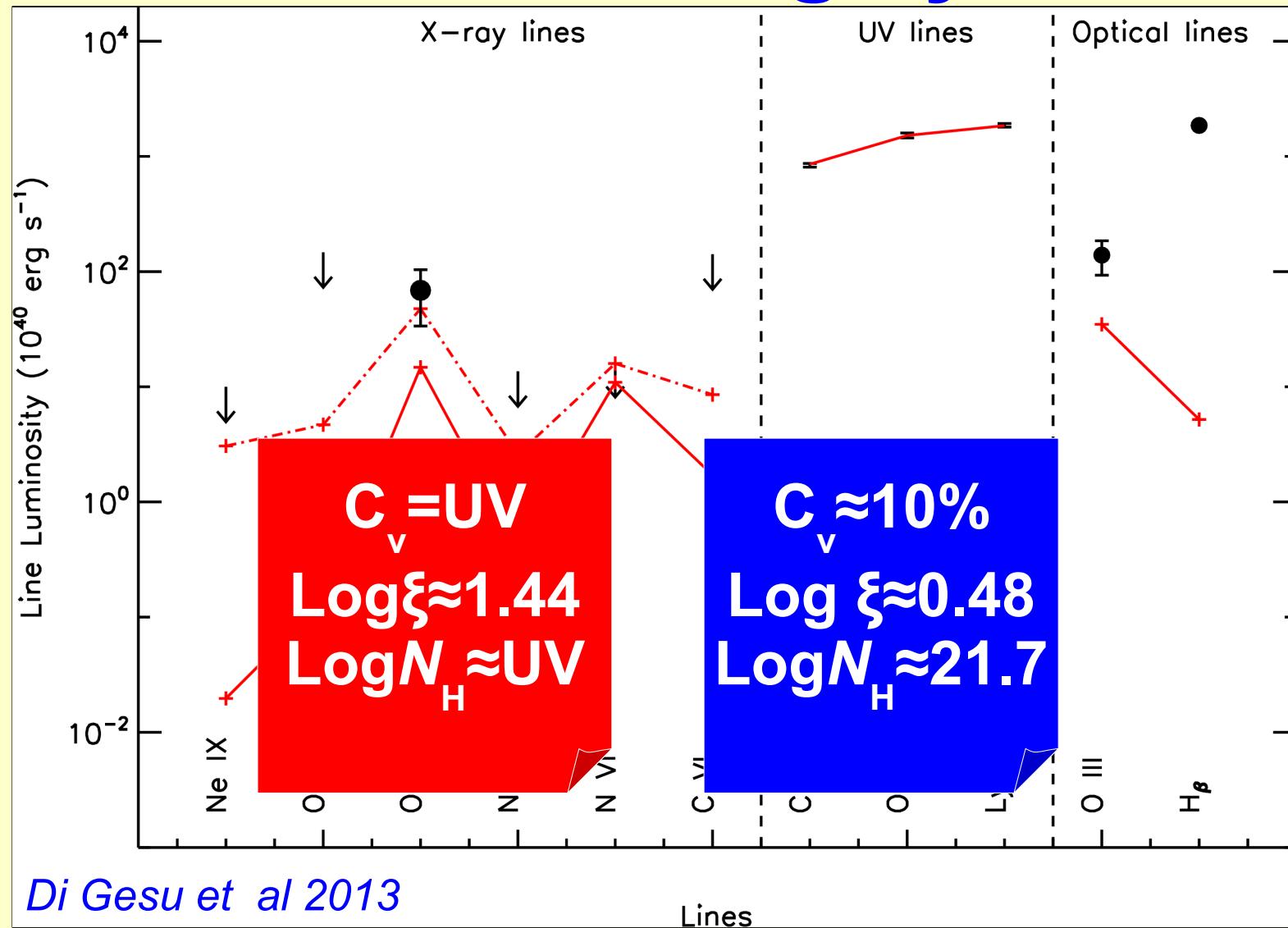
# The NL emitting system



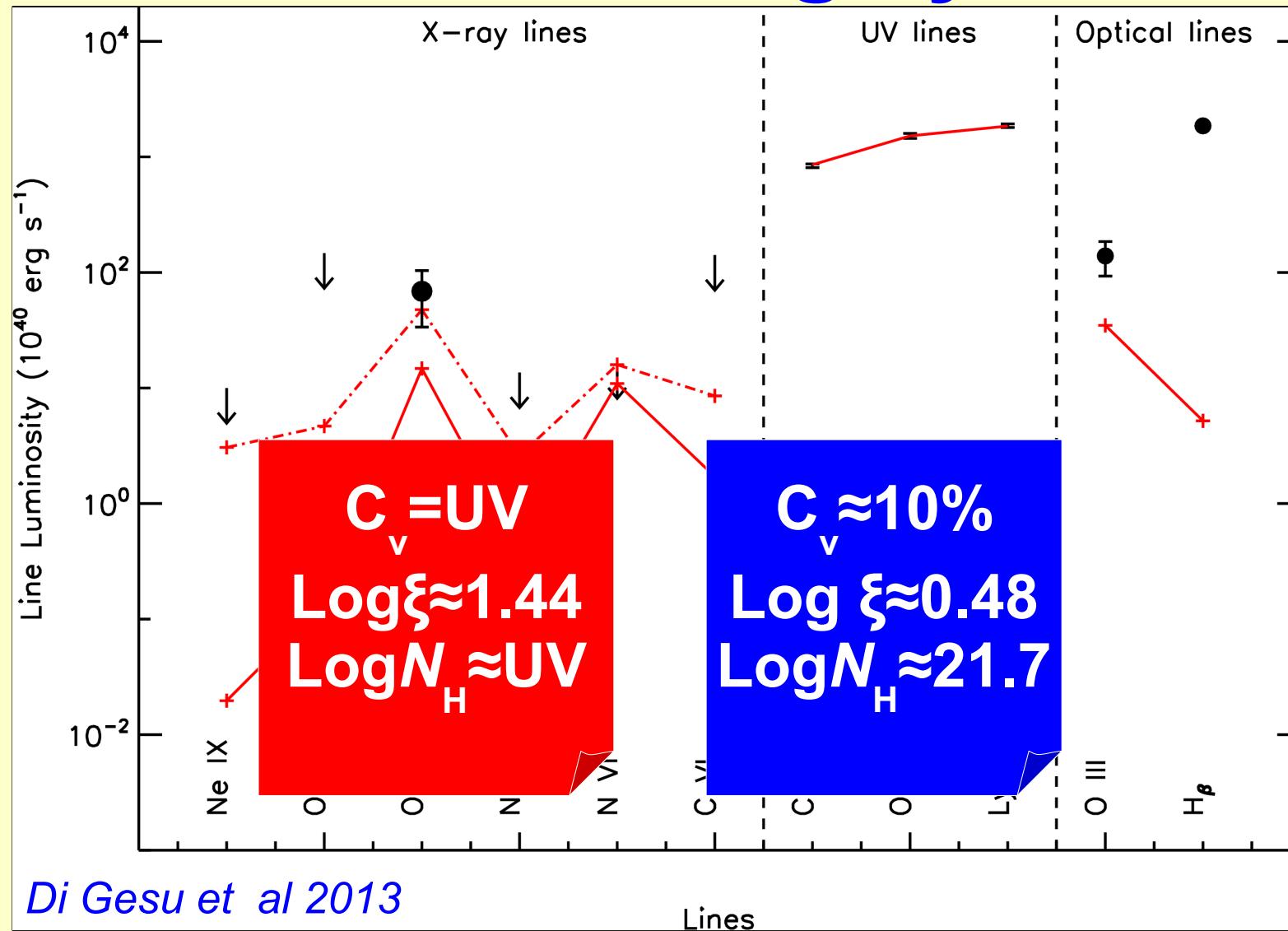
# The NL emitting system



# The NL emitting system



# The NL emitting system



→UV and X-ray emitters are adjacent layers of gas.

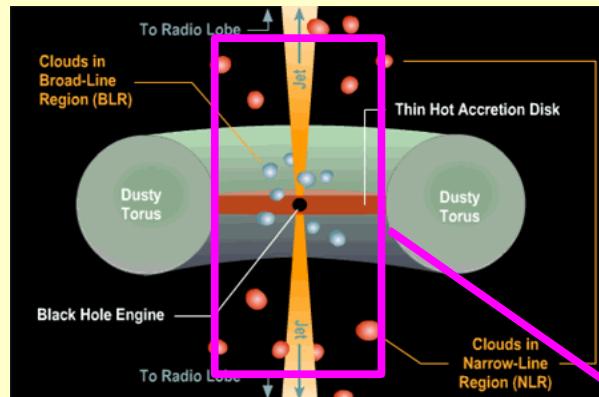
# An X-ray UV campaign



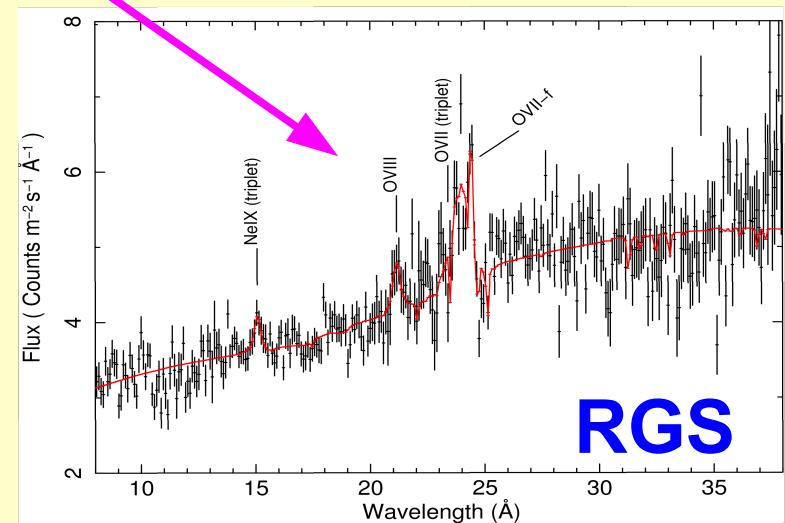
Simultaneous



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167 ks



HST/COS  
19 ks



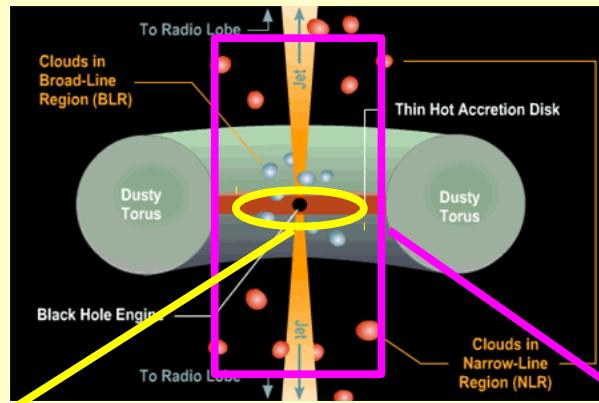
# An X-ray UV campaign



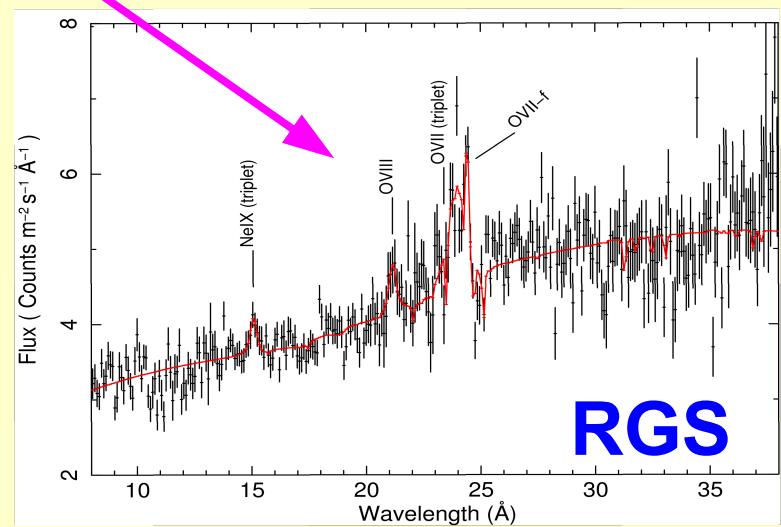
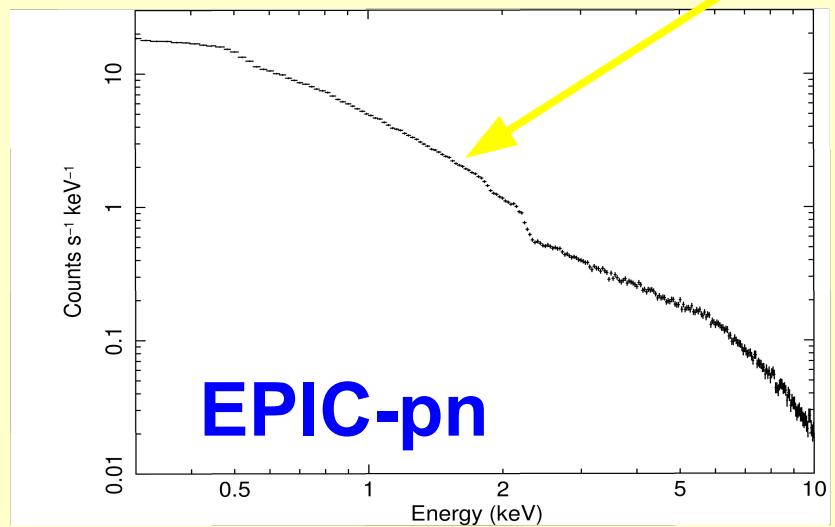
Simultaneous

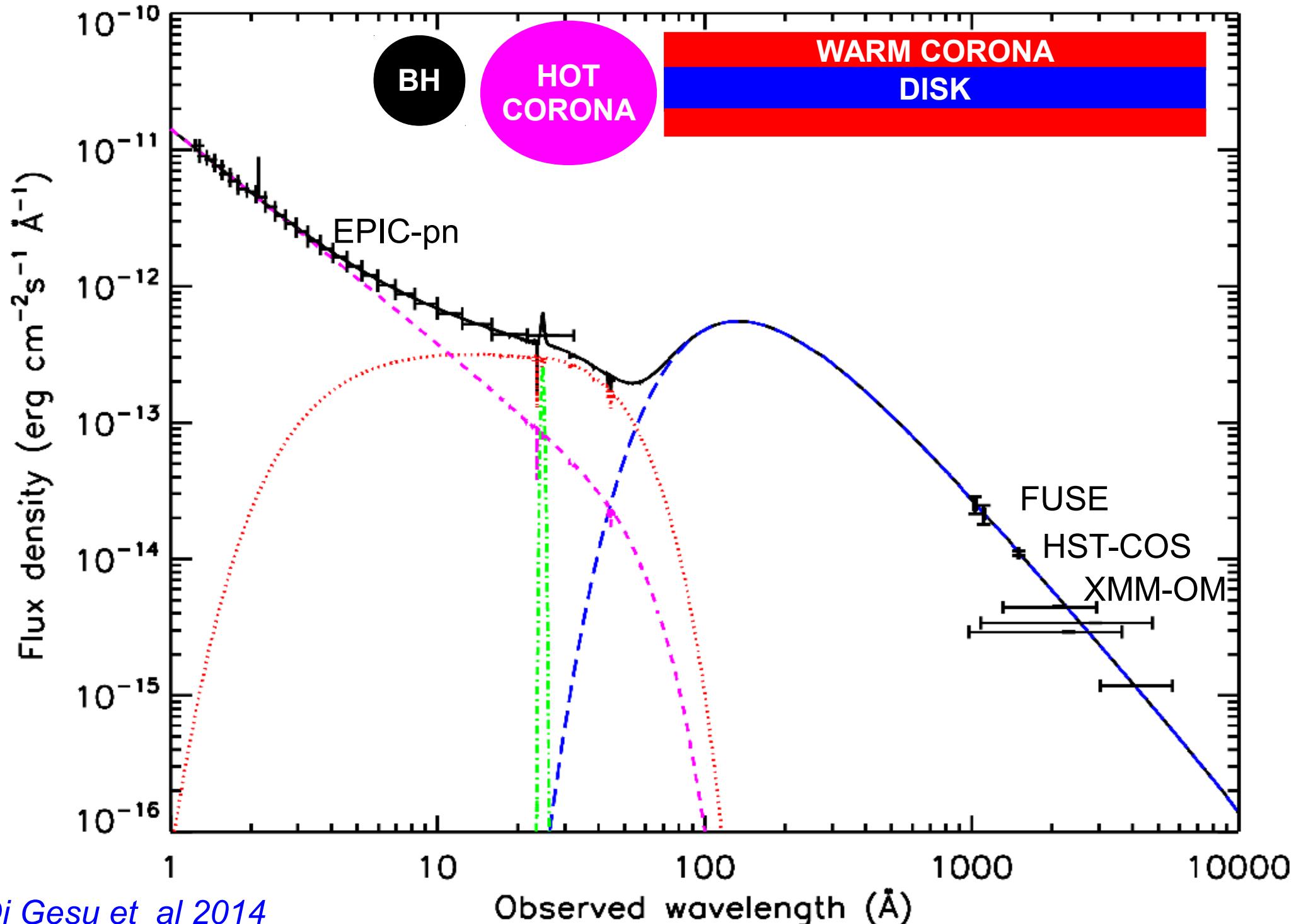


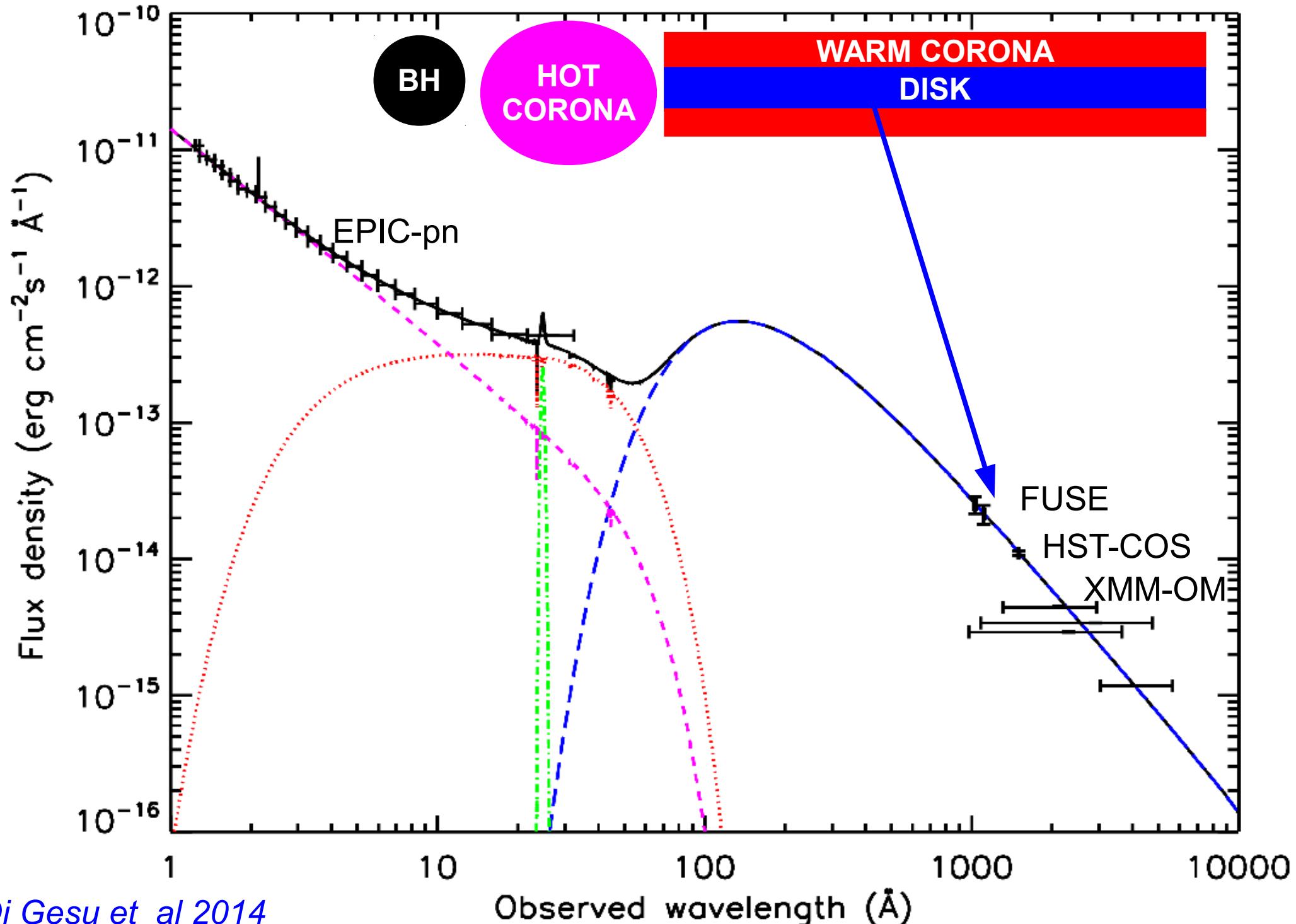
XMM-Newton  
167 ks

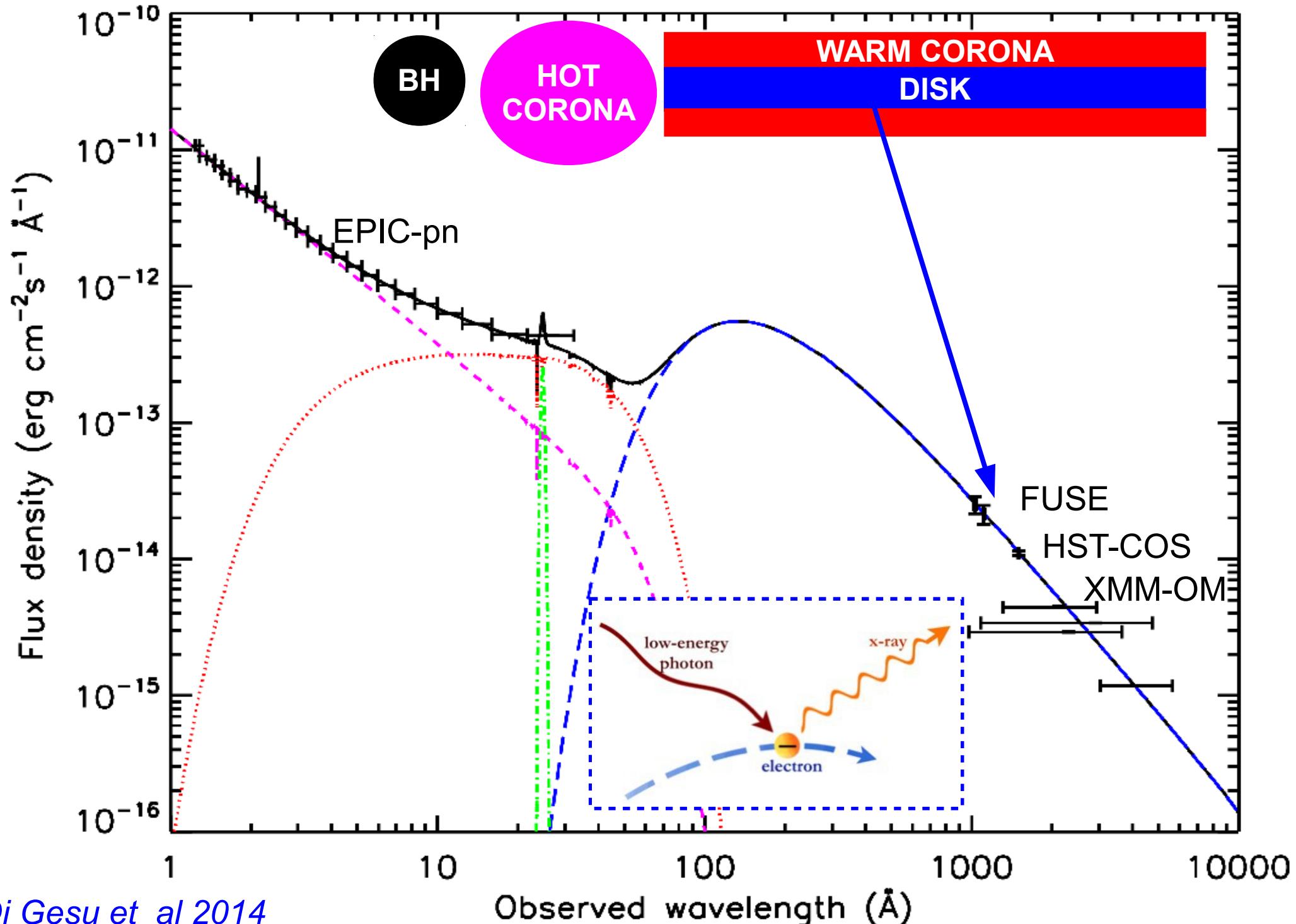


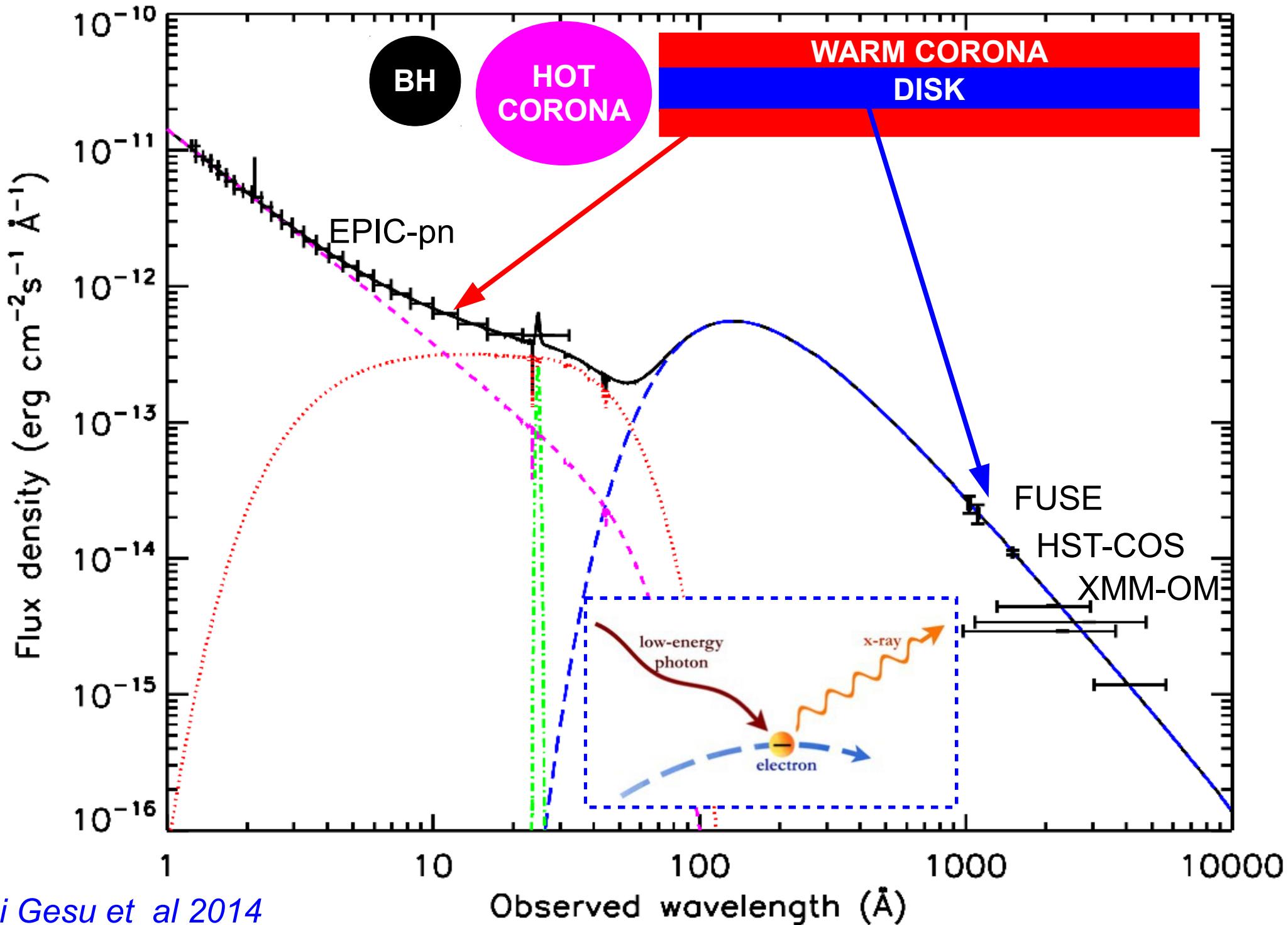
HST/COS  
19 ks

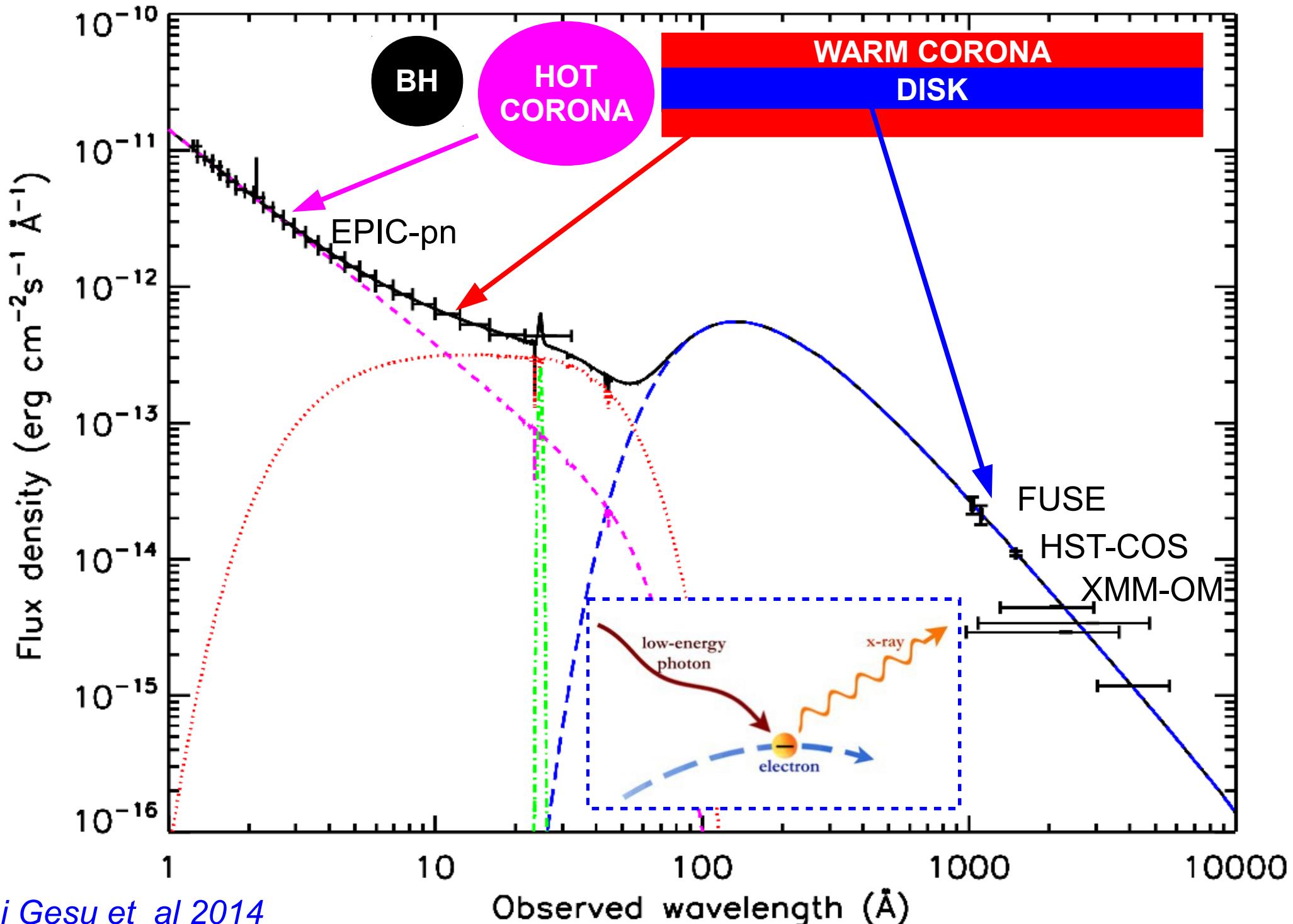








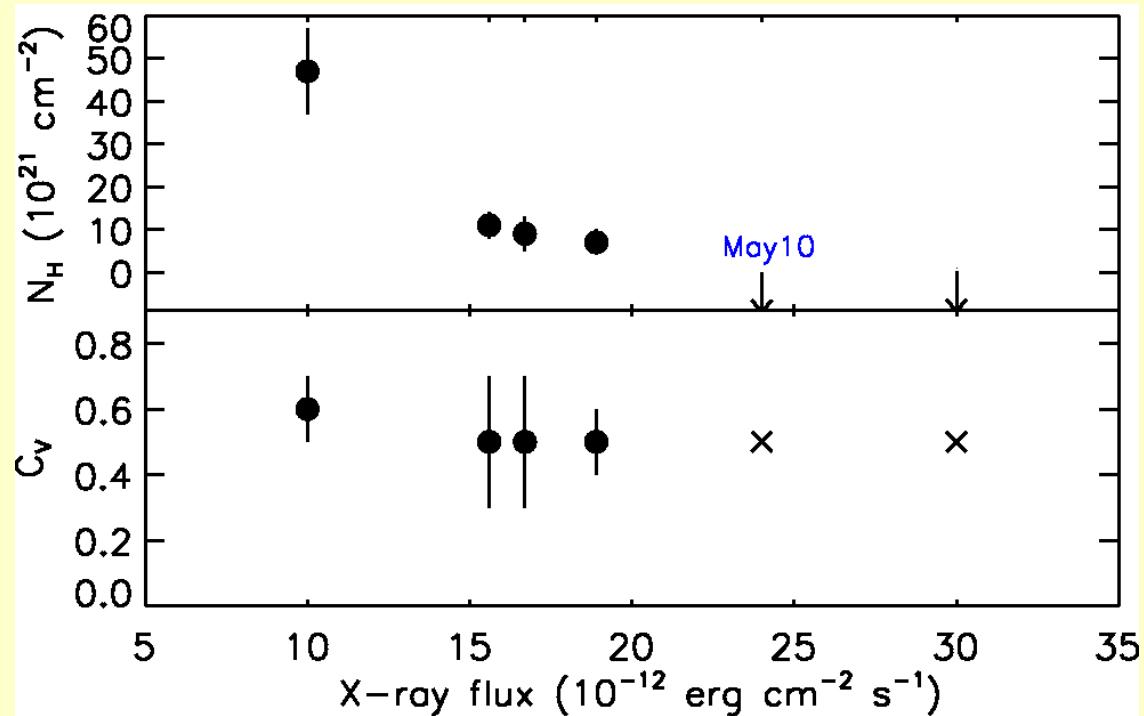




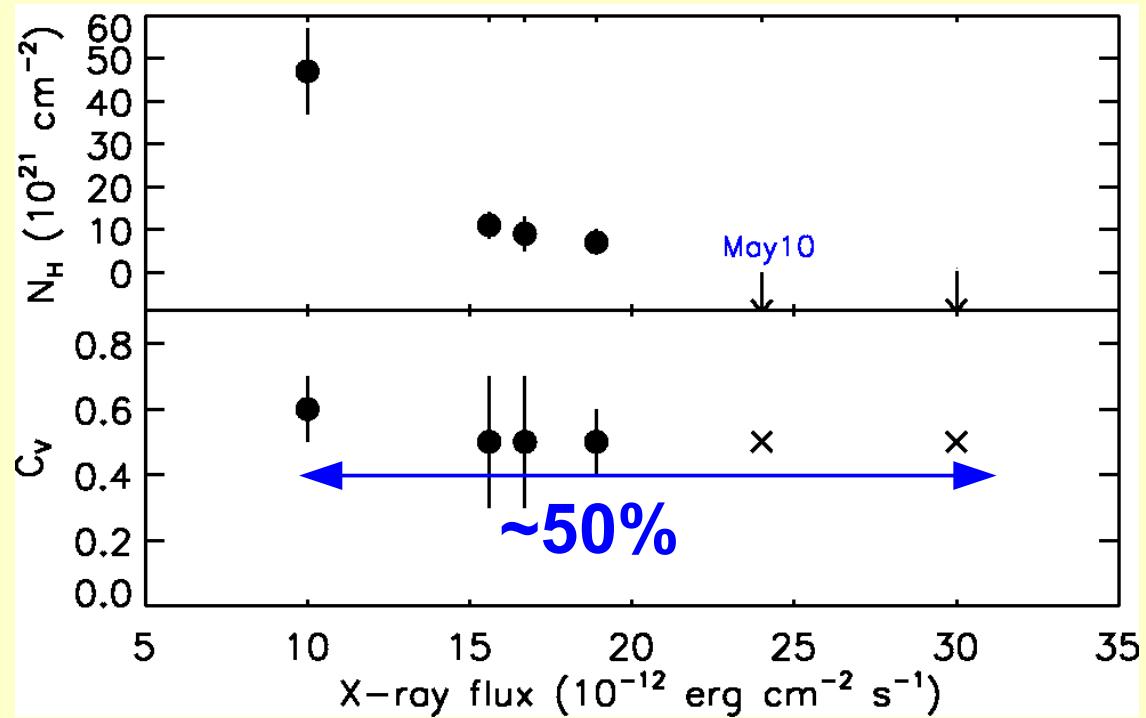
# Fitting the X-ray variability



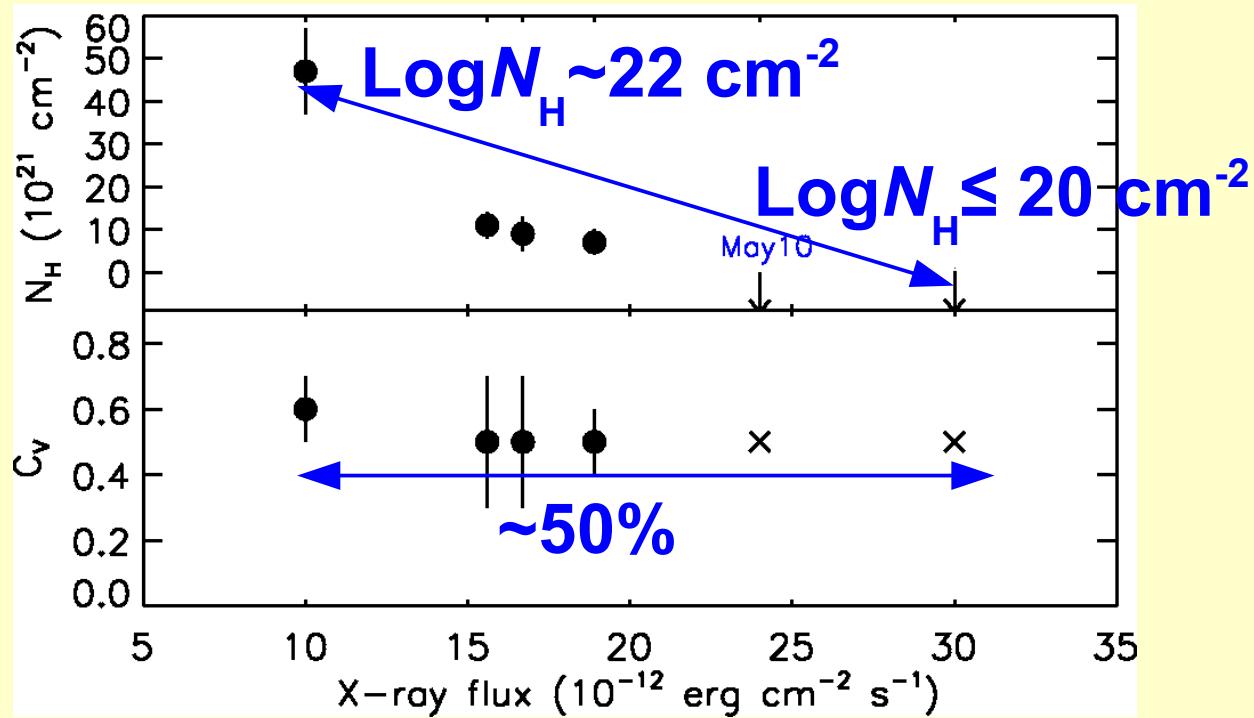
# Fitting the X-ray variability



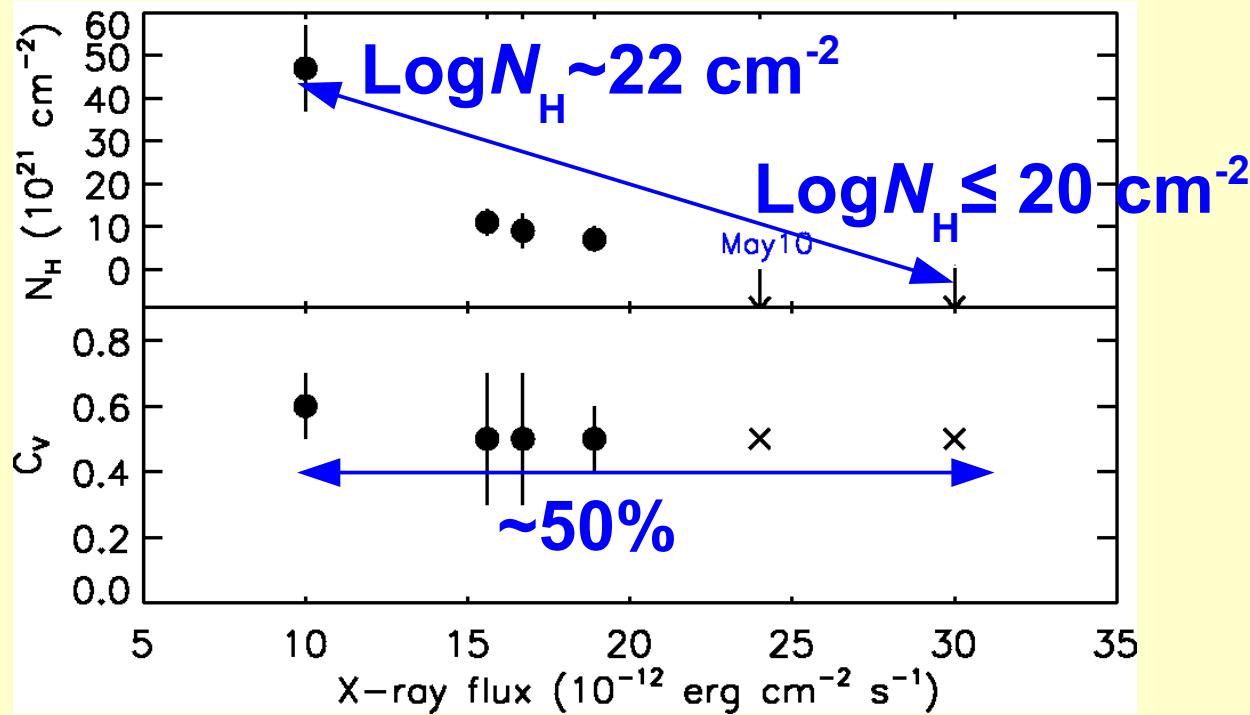
# Fitting the X-ray variability



# Fitting the X-ray variability

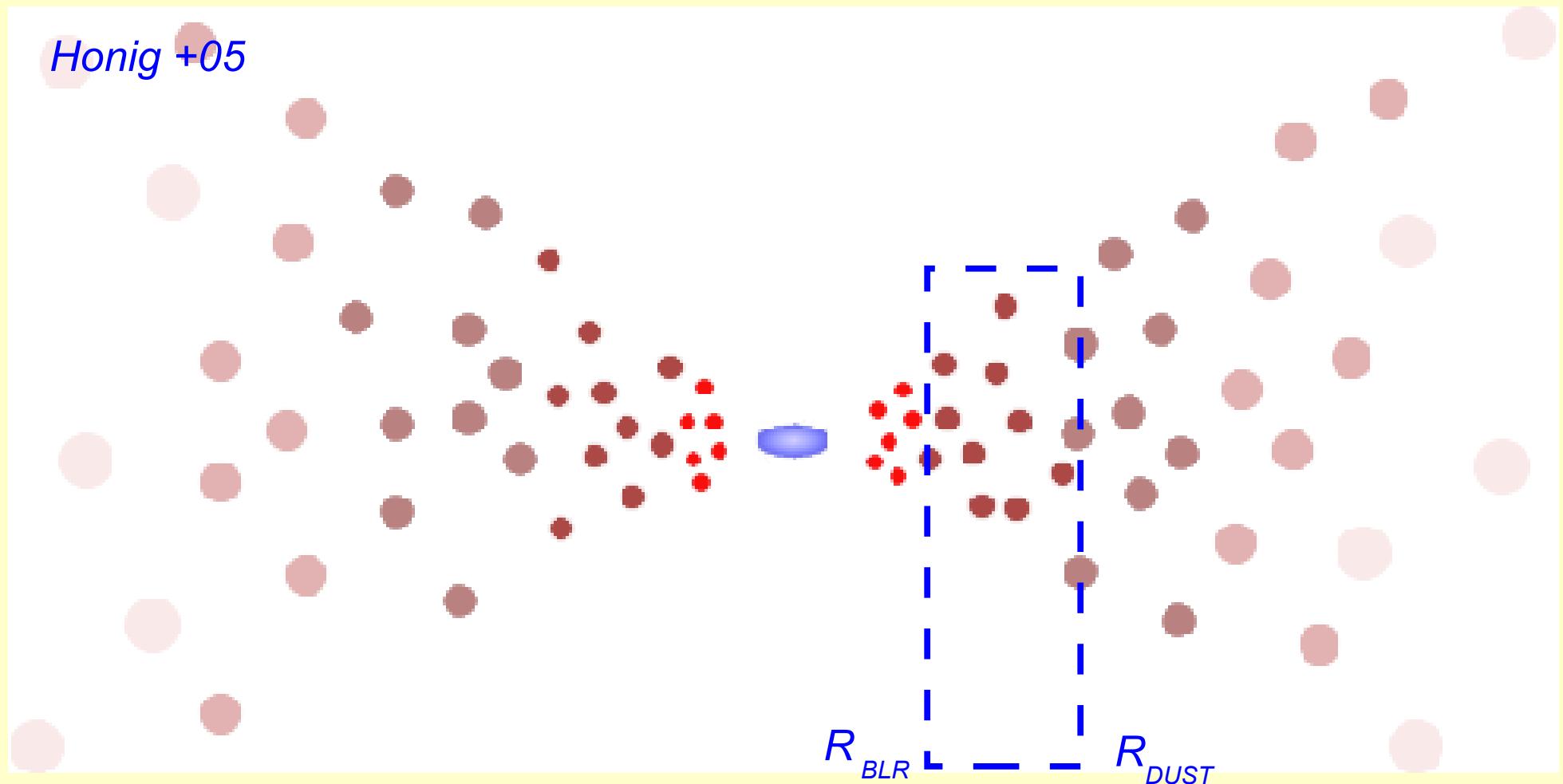


# Fitting the X-ray variability

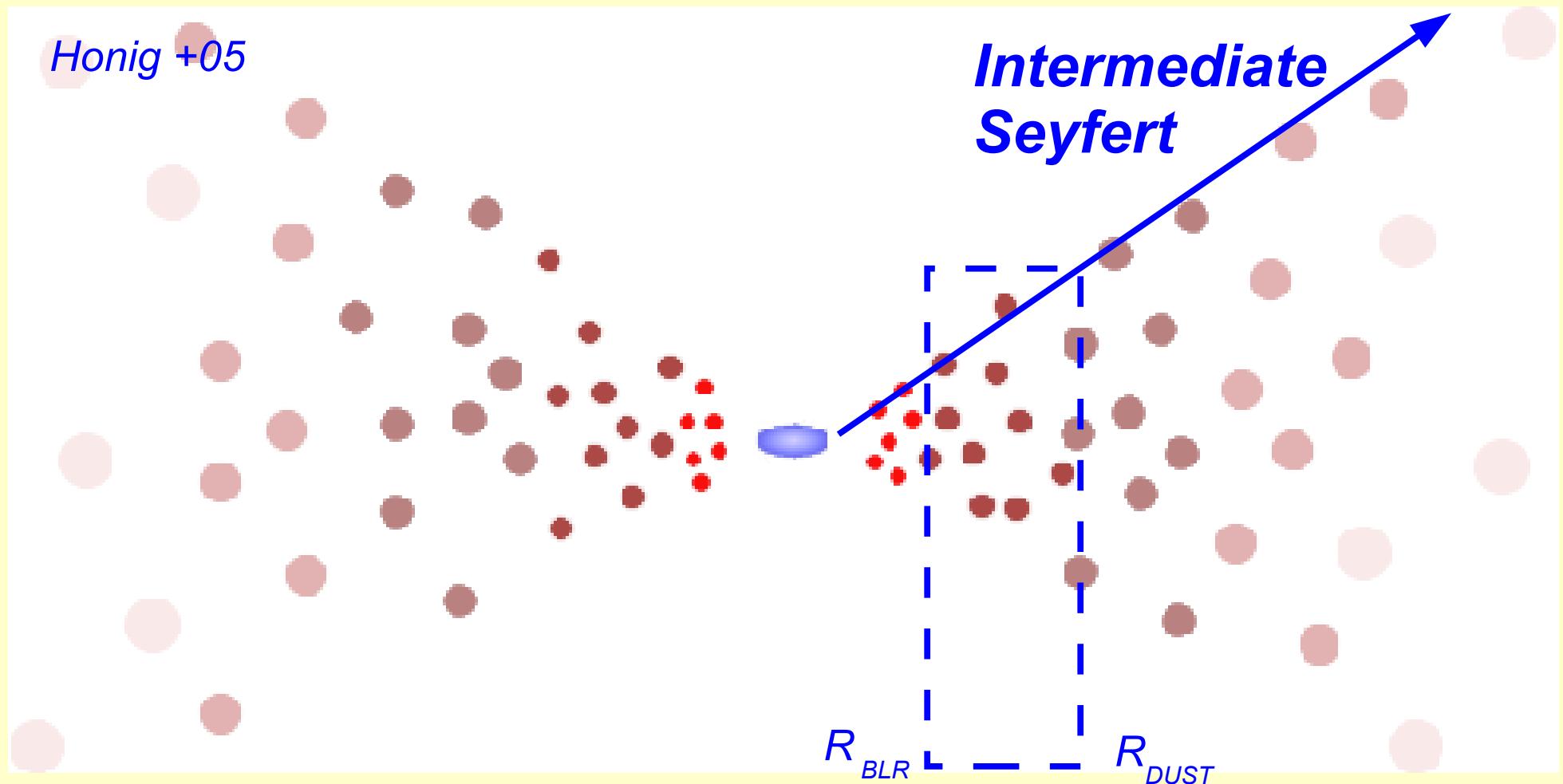


→A variable absorption explains the variability.

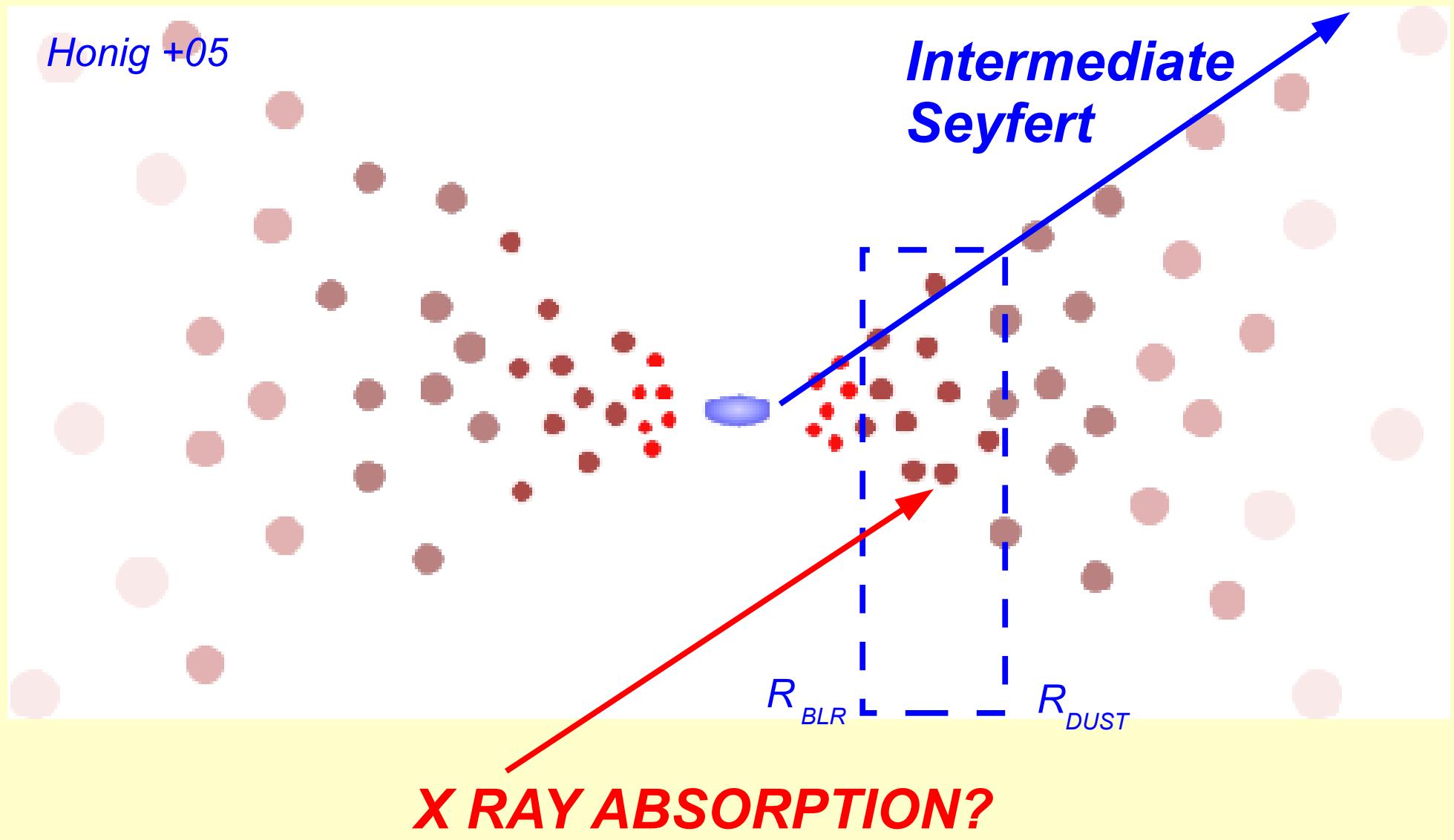
# Thoughts about the variability



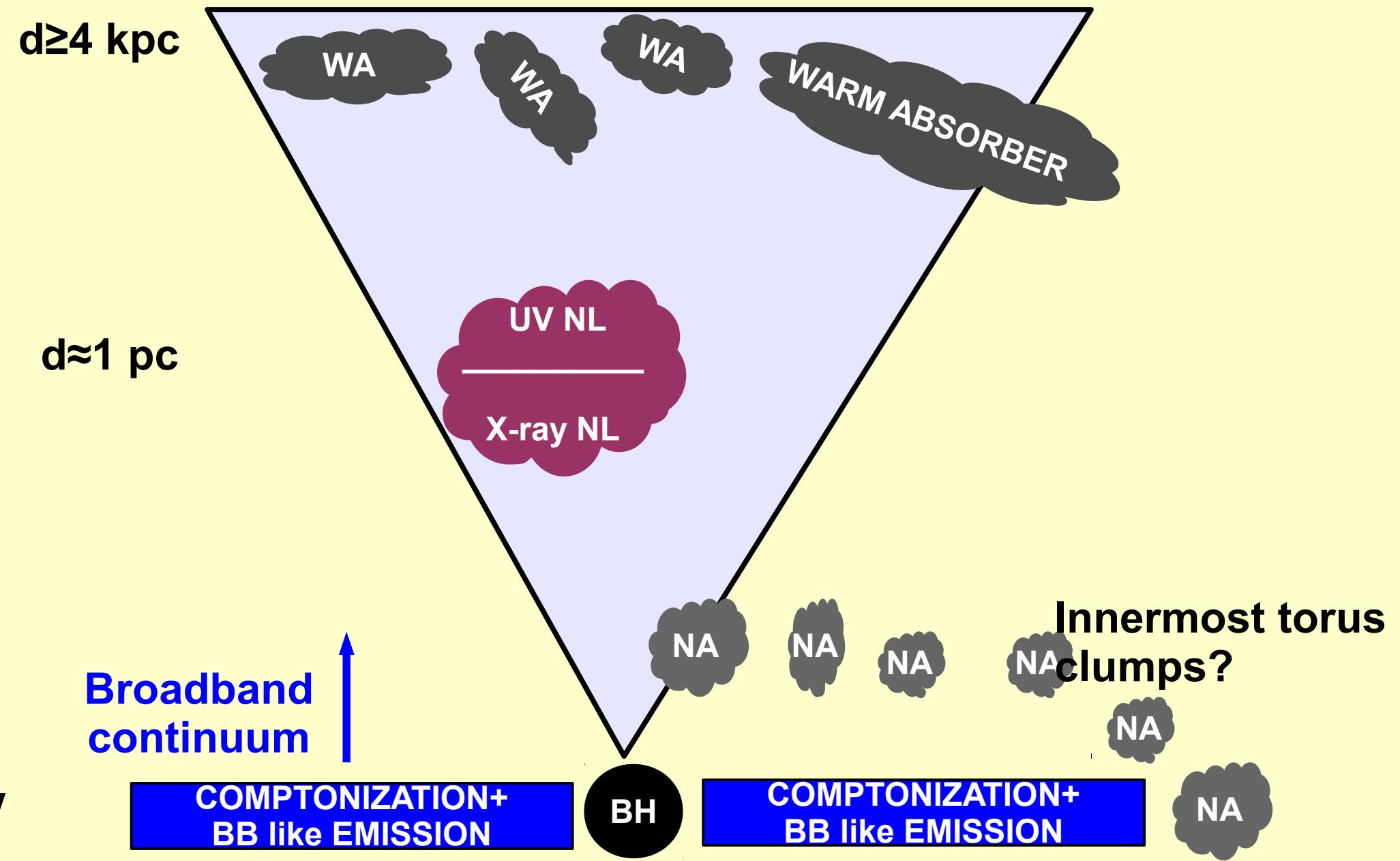
# Thoughts about the variability



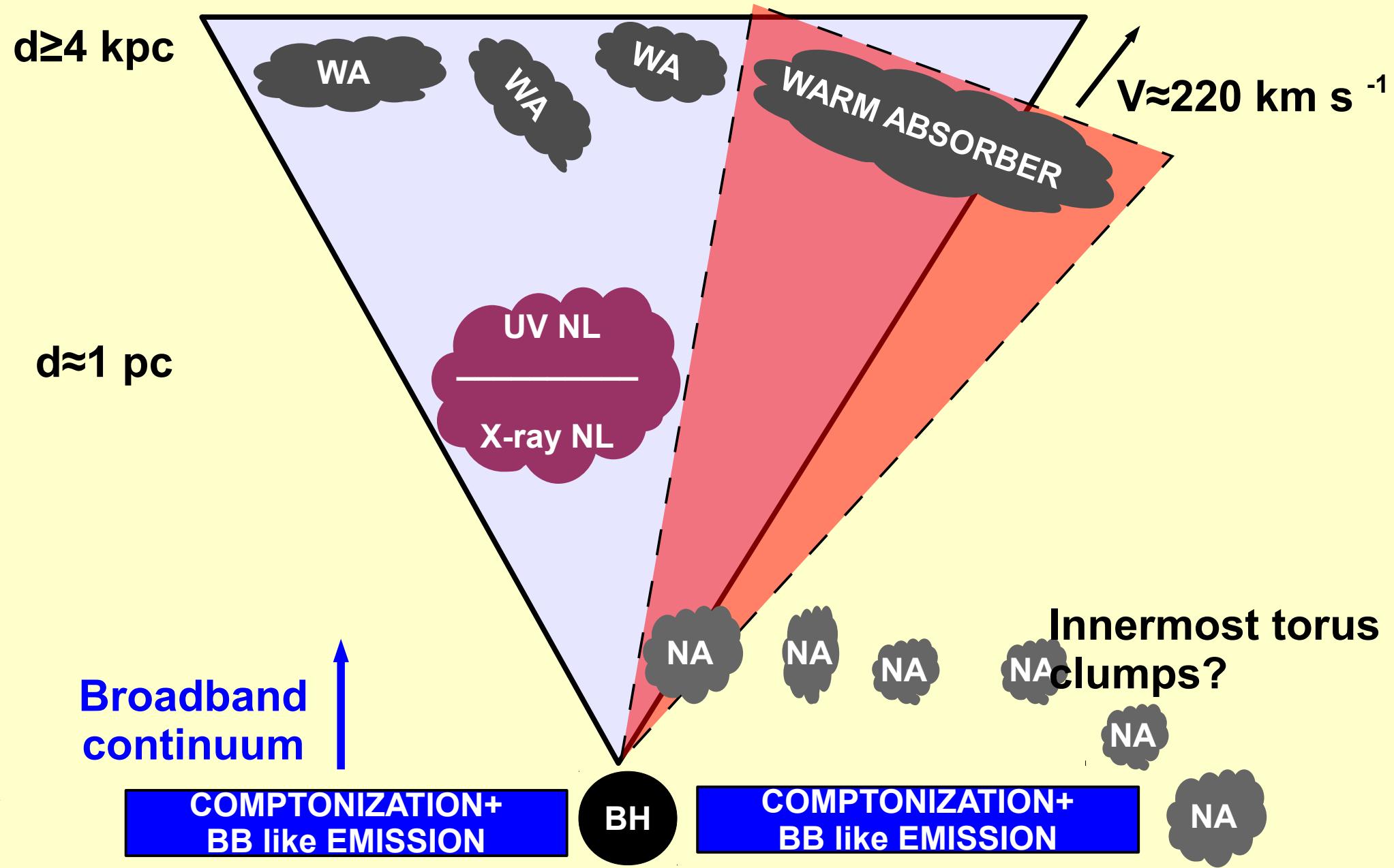
# Thoughts about the variability



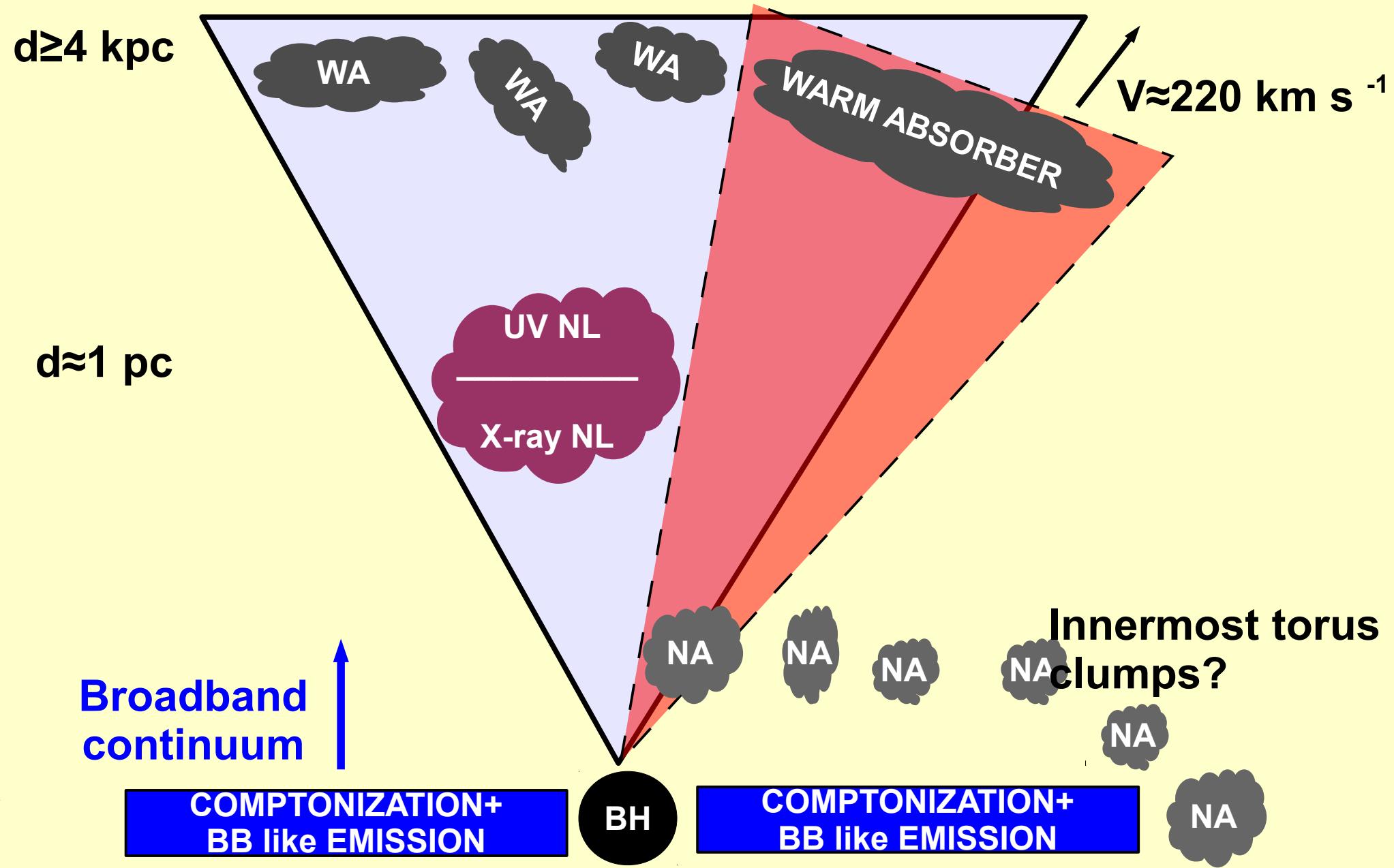
# A global picture



# A global picture

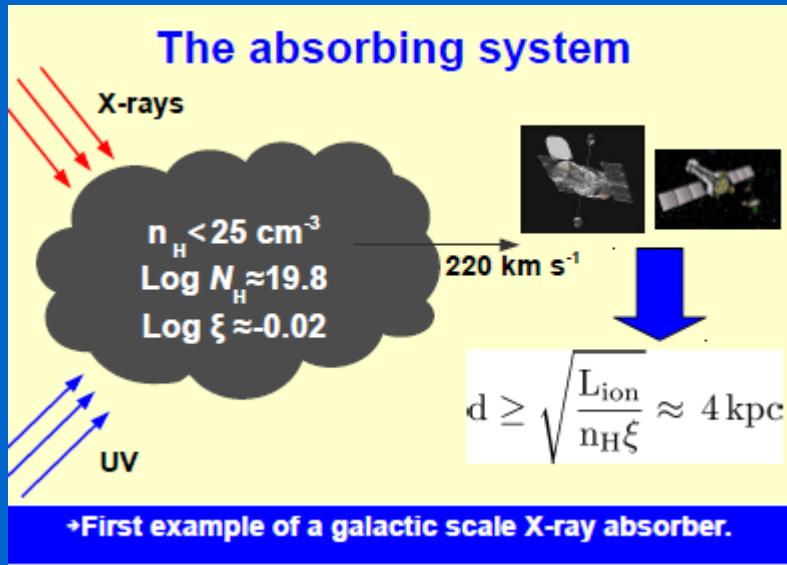


# A global picture

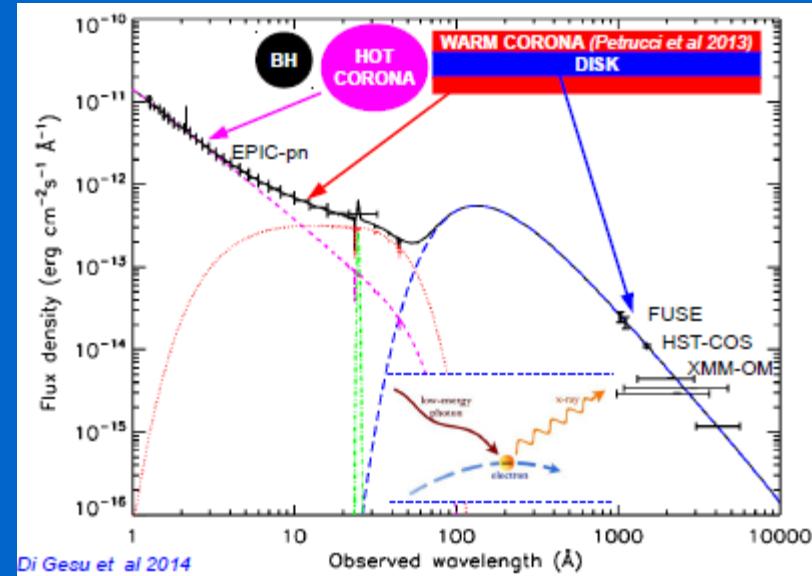
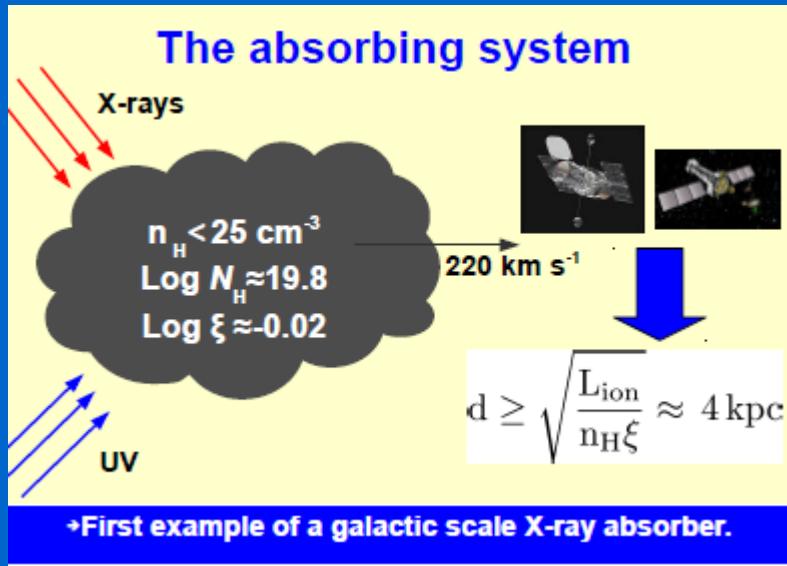


# Summary

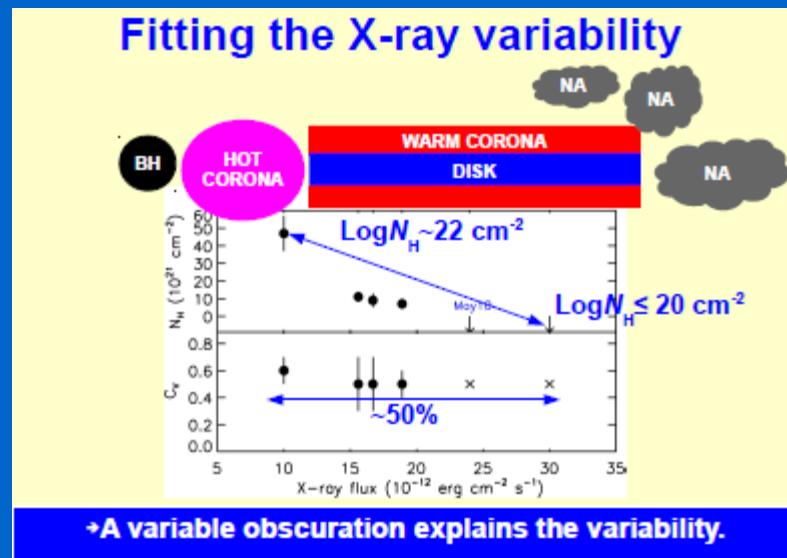
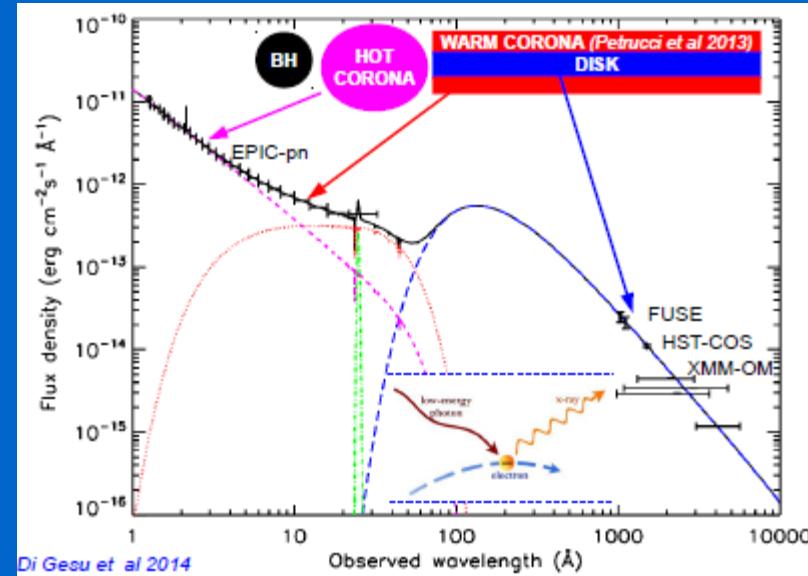
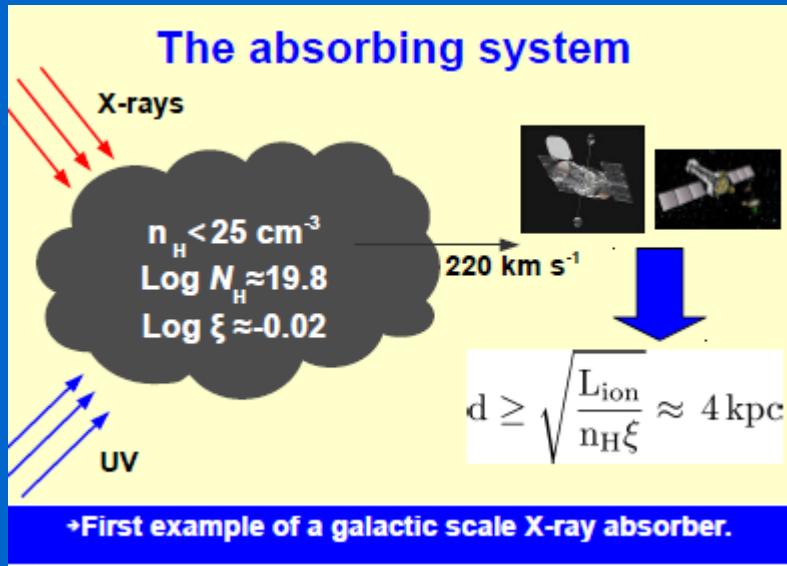
# Summary



# Summary



# Summary



# Summary

