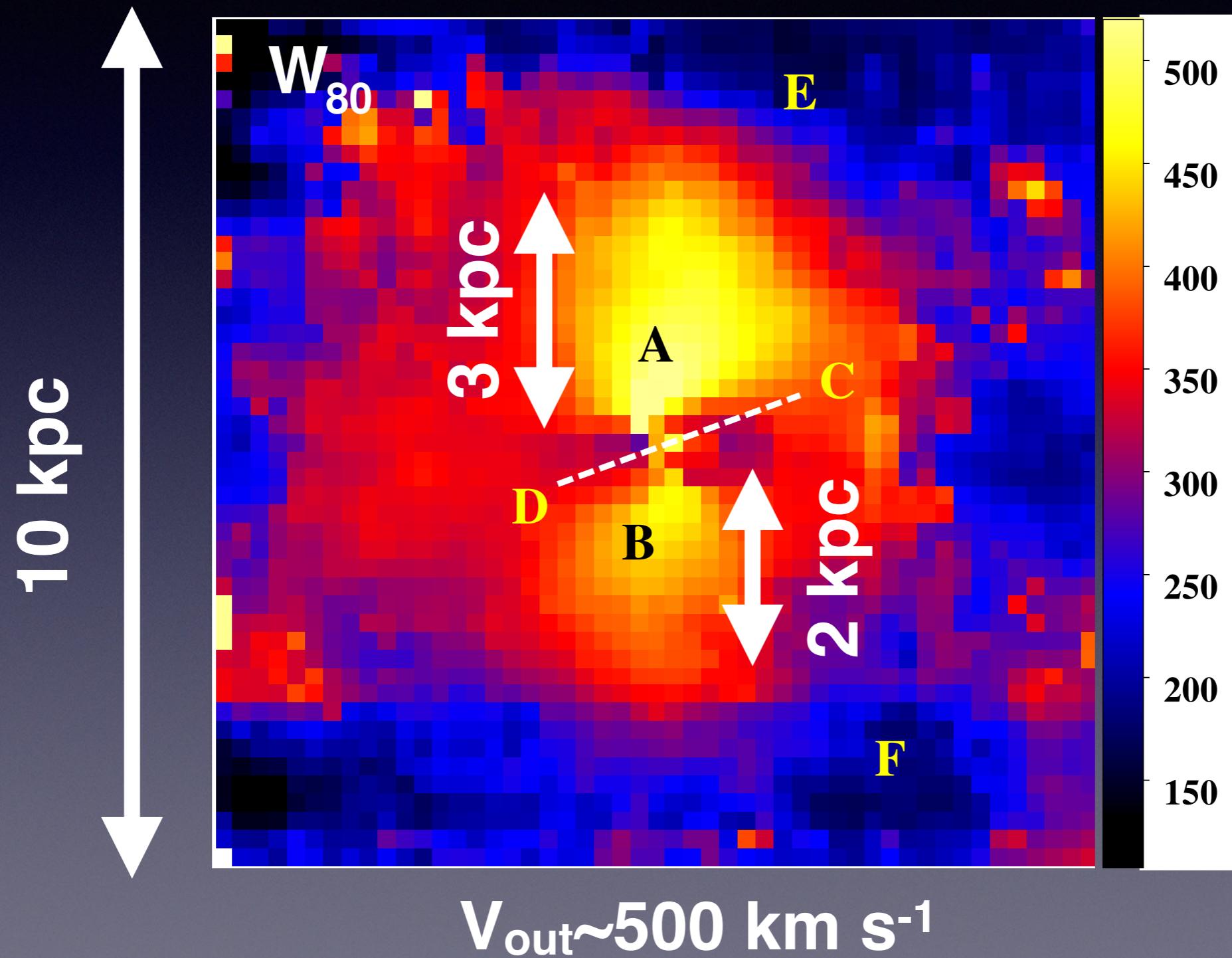


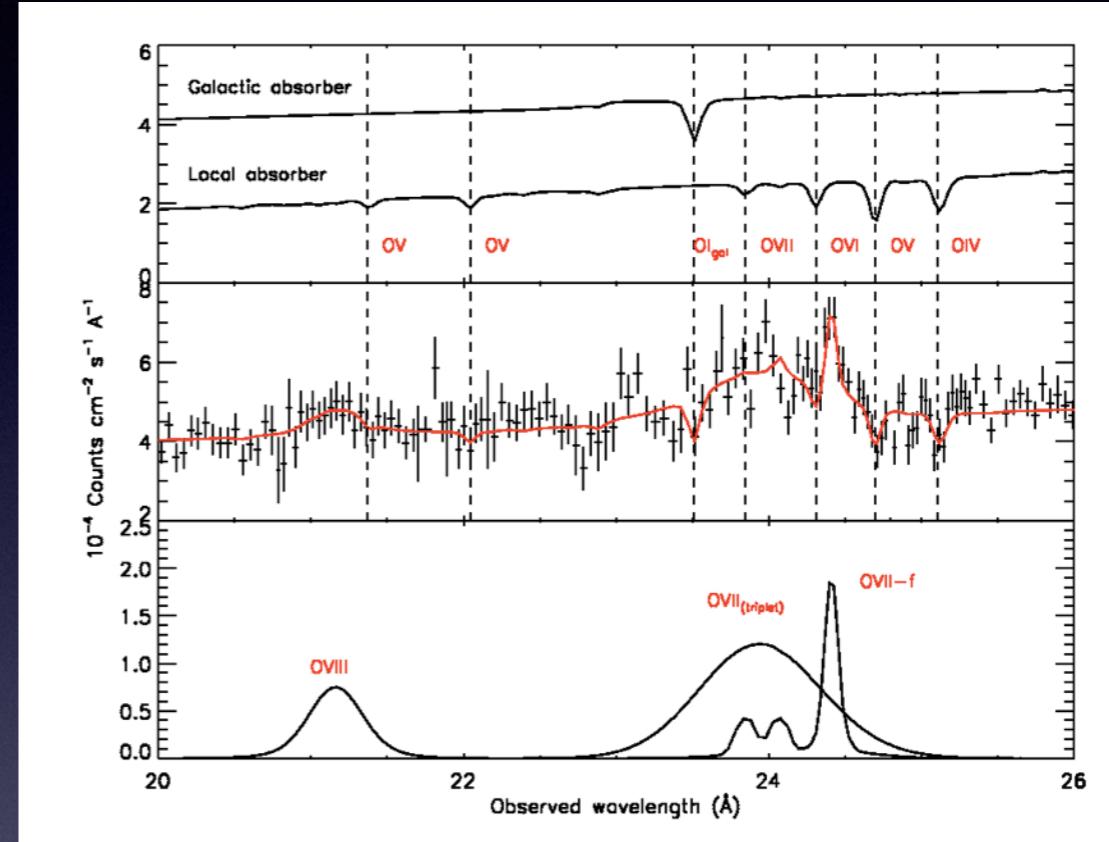
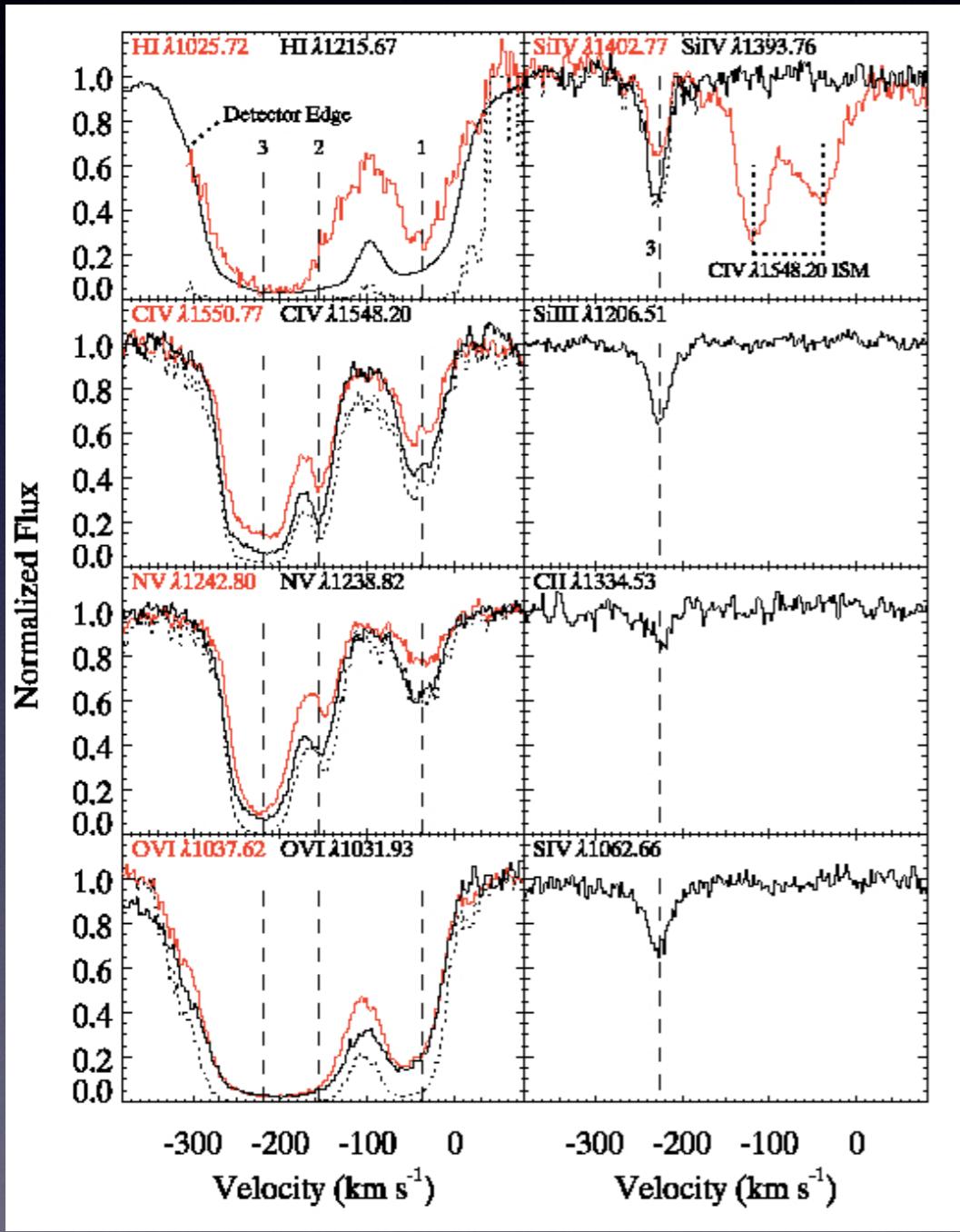
The case of the galactic wind in 1H 0419-577

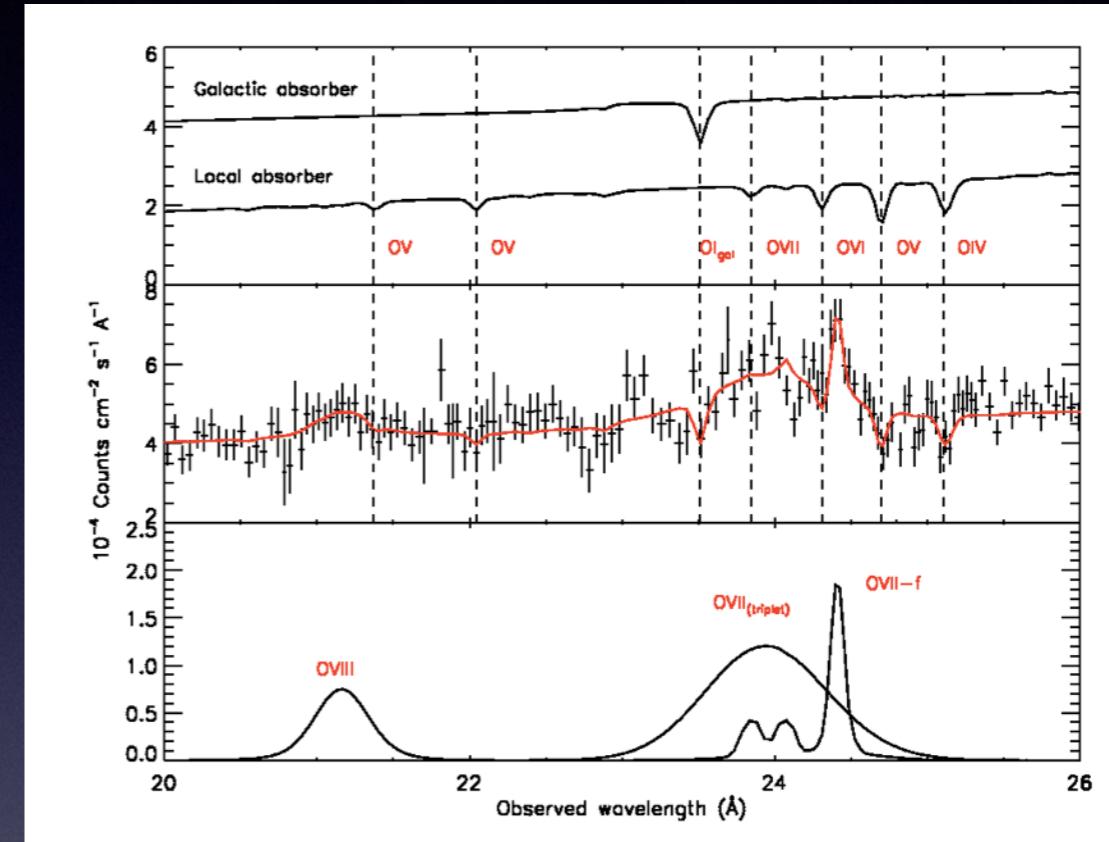
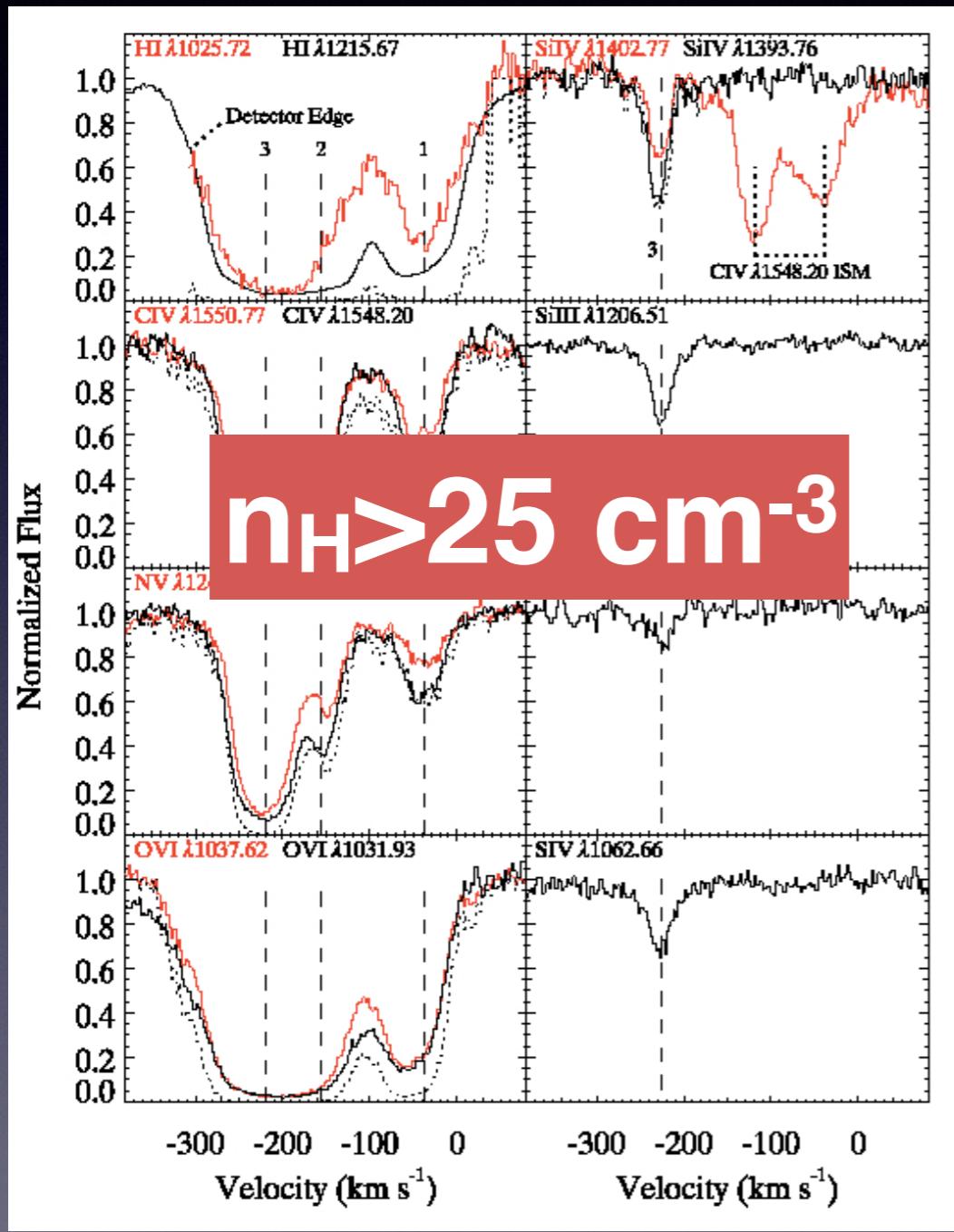


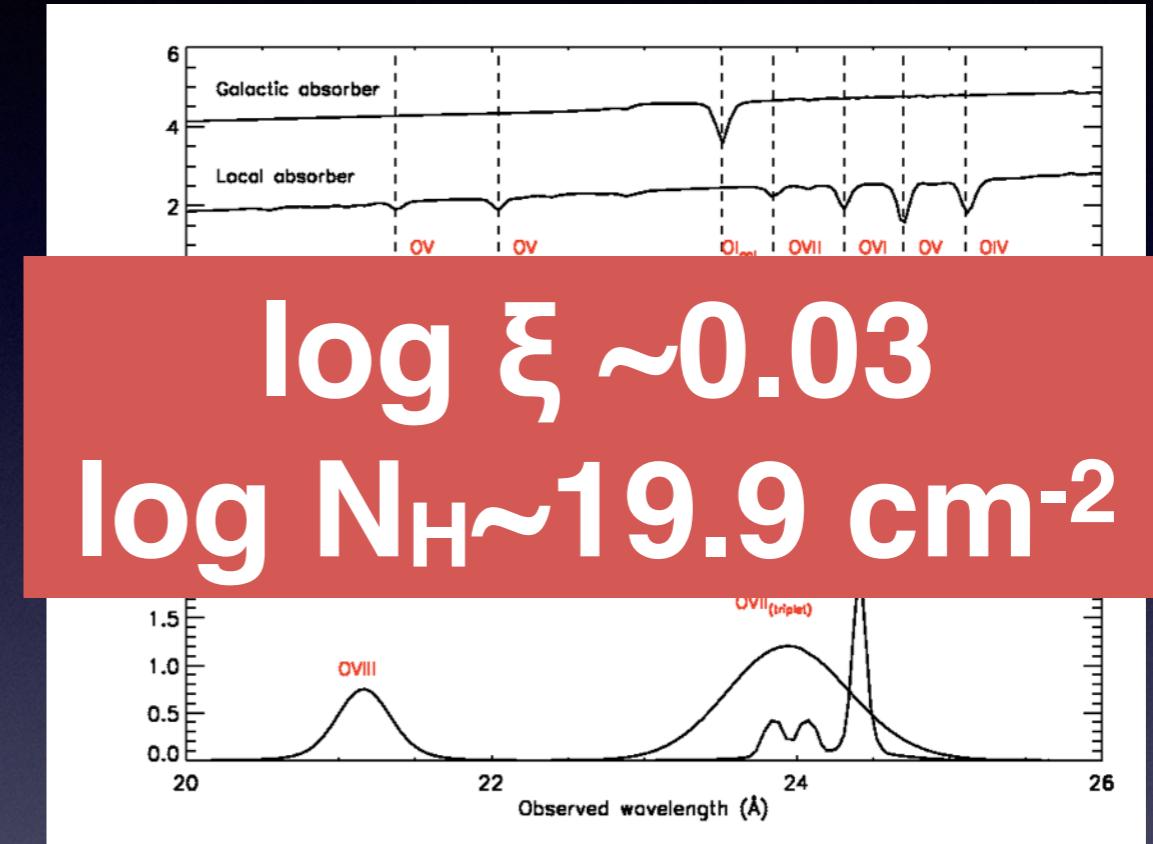
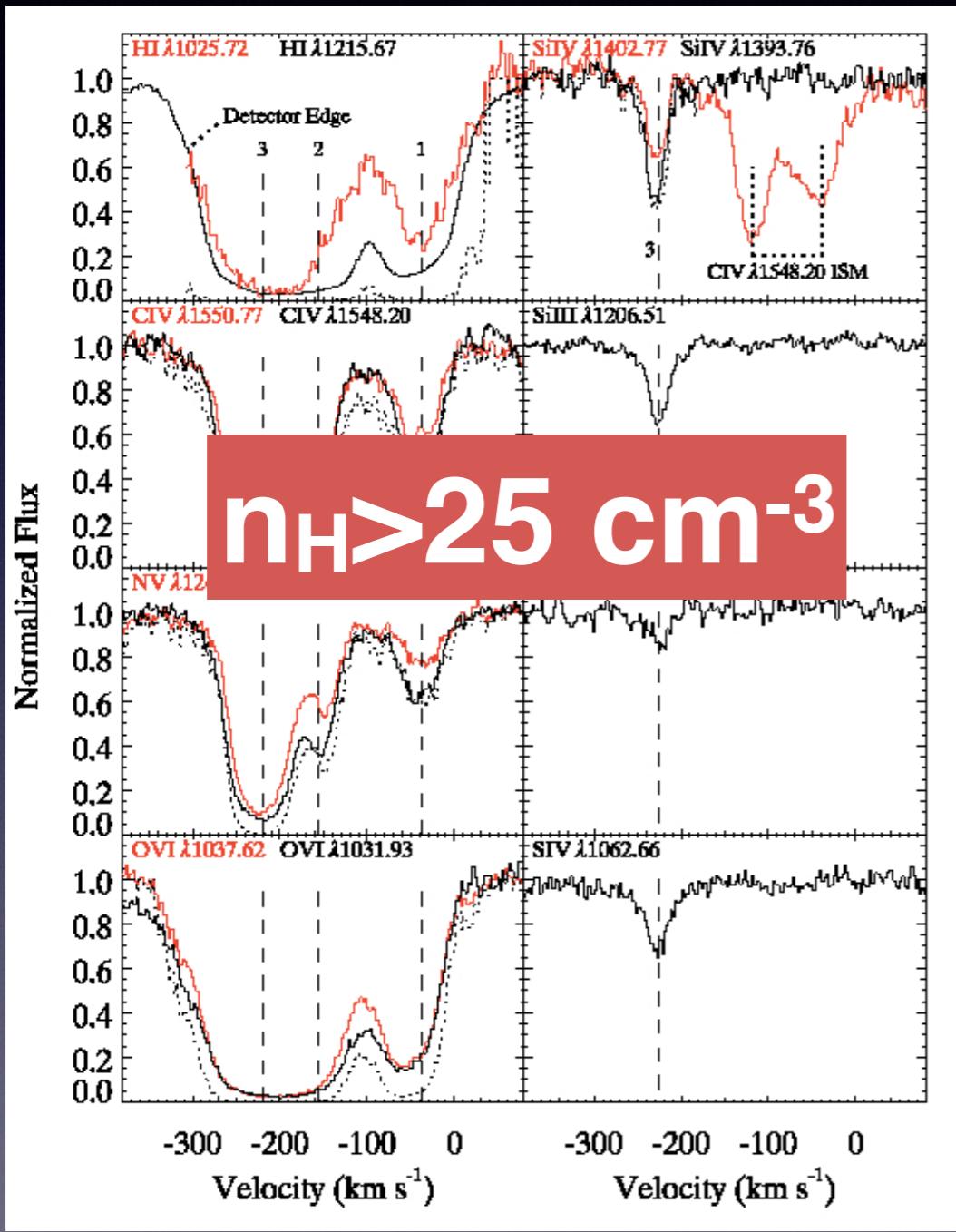
Di Gesu L. Costantini E., Piconcelli, E. et al.

The galactic outflow: [O III]

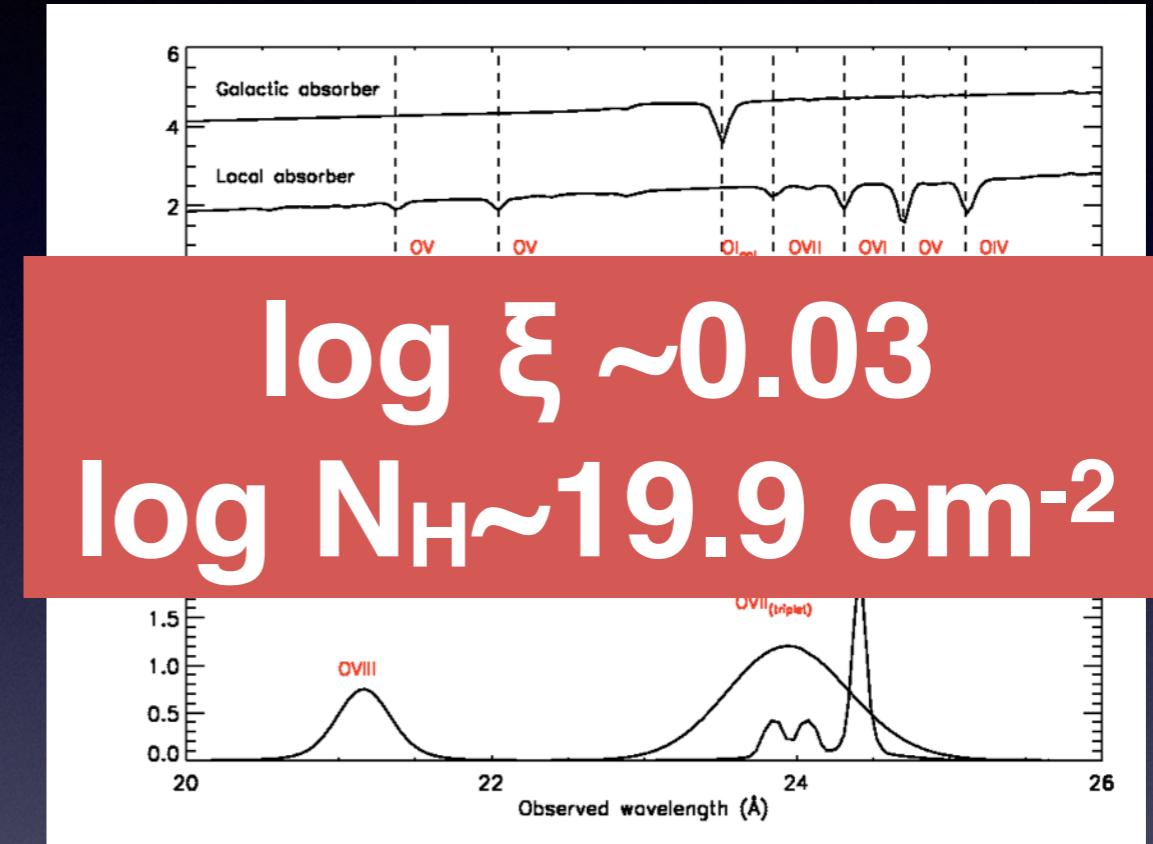
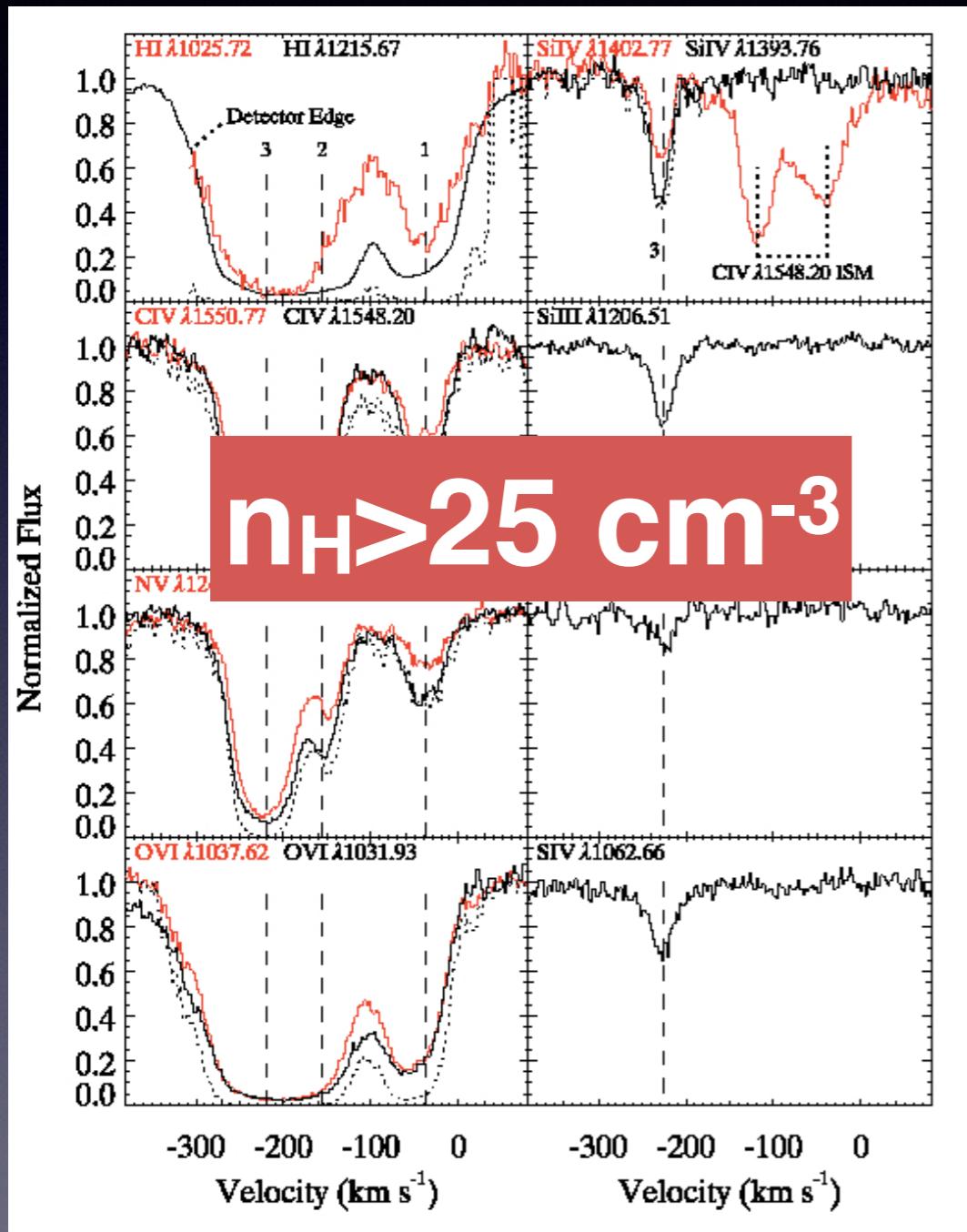






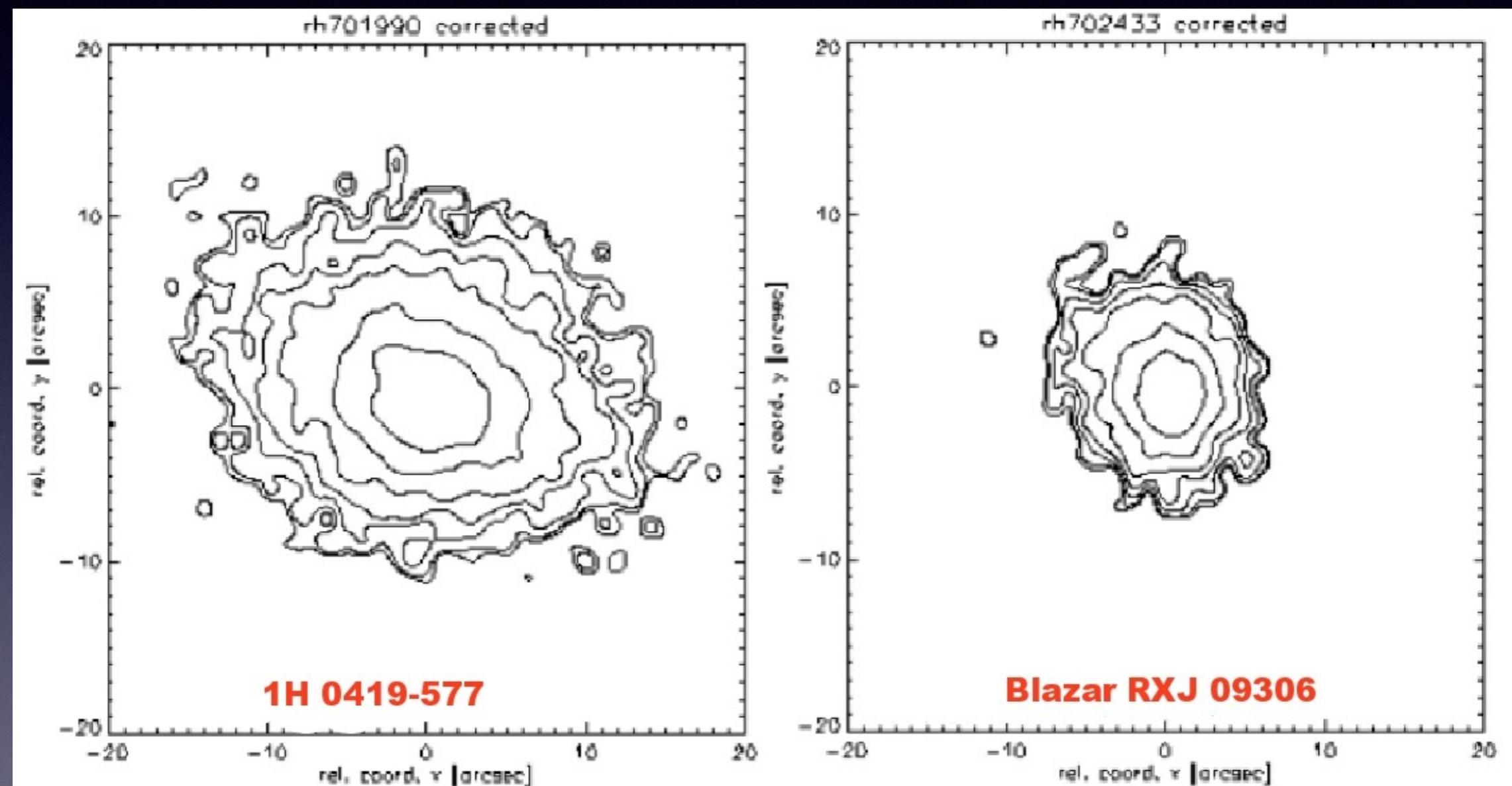


The galactic outflow: WA



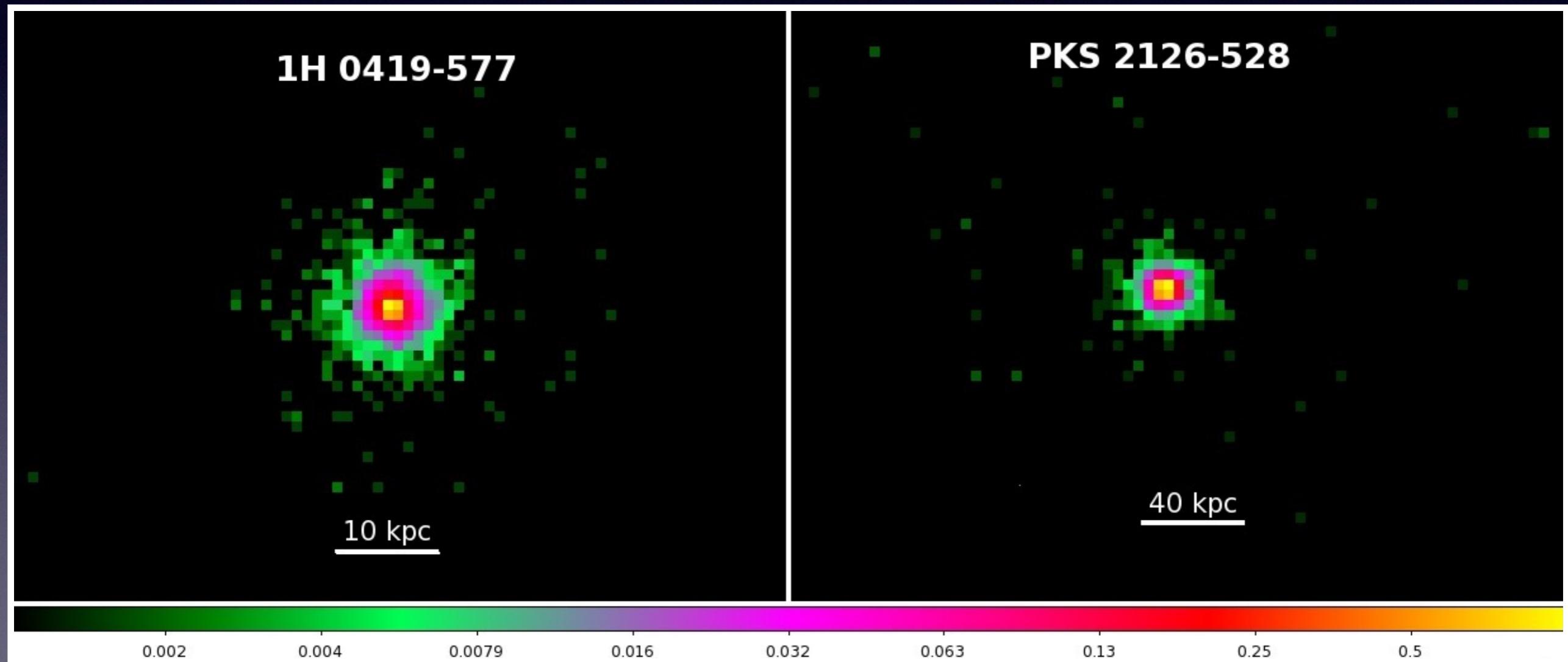
$$d \geq \sqrt{\frac{L_{\text{ion}}}{n_{\text{H}} \xi}} \approx 4 \text{ kpc}$$

Extended X-ray emission: ROSAT



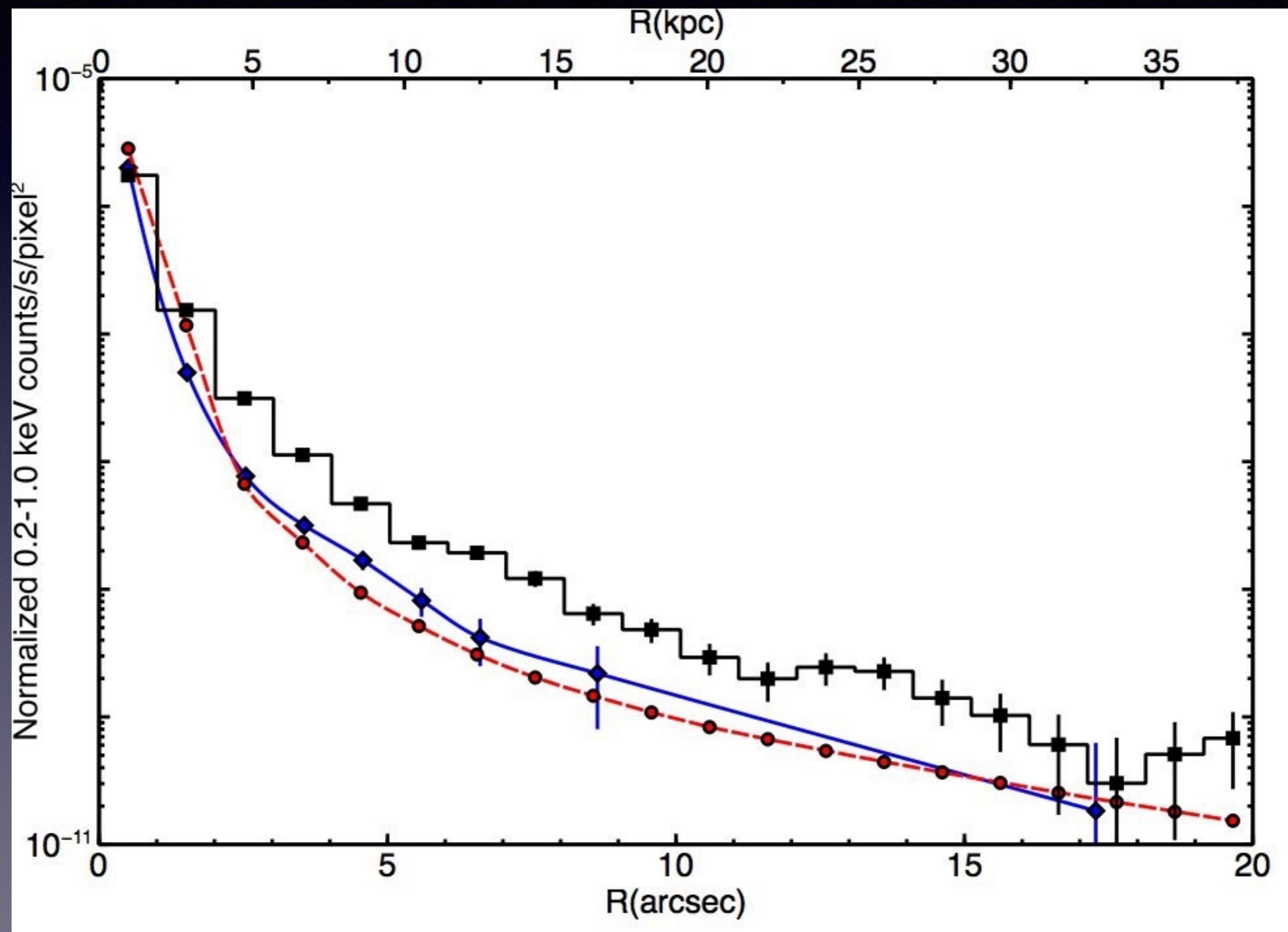
Predhel&Prieto 2001

Extended X-ray emission: Chandra-ACIS

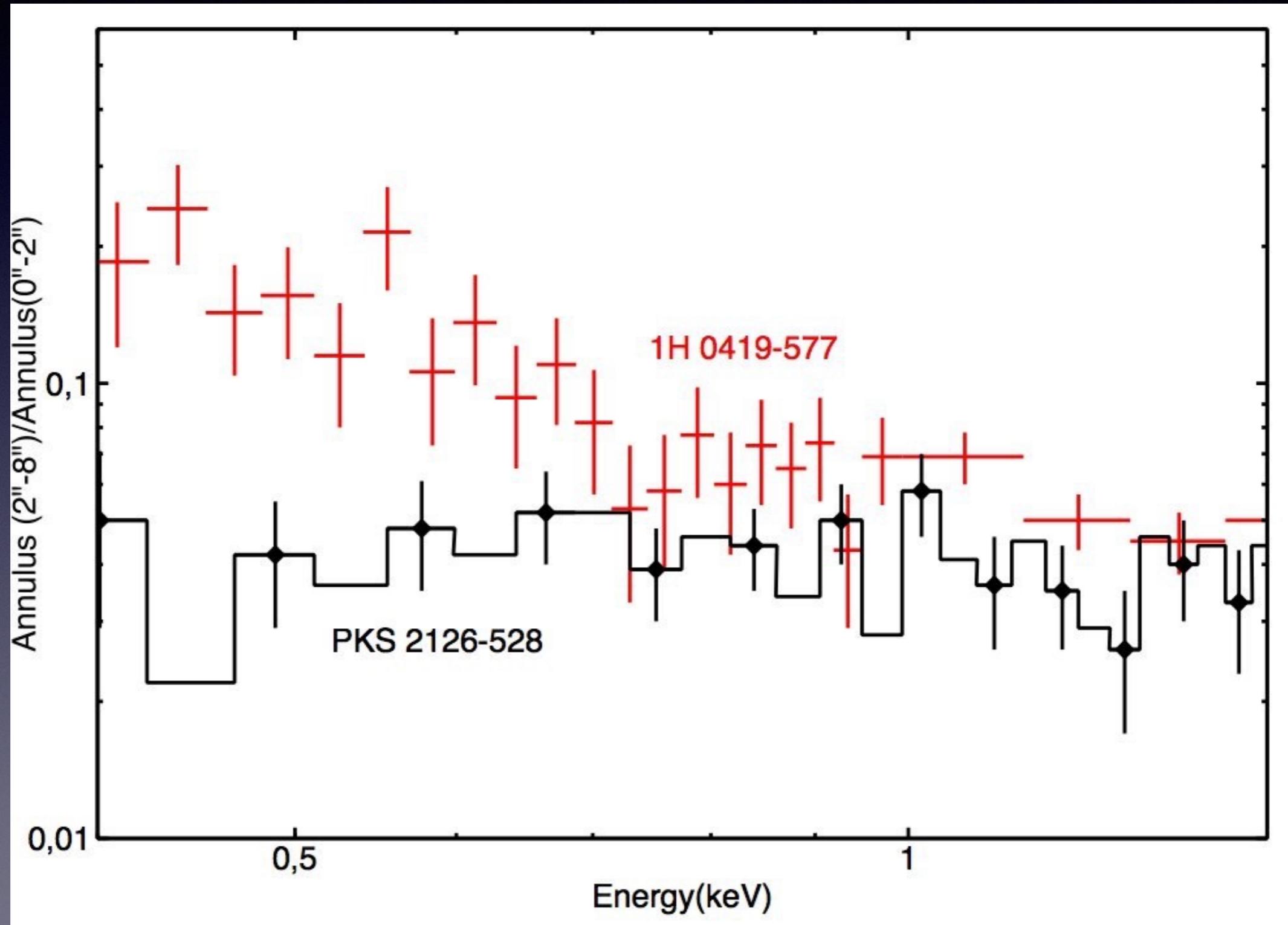


Di Gesu et al. (to be submitted)

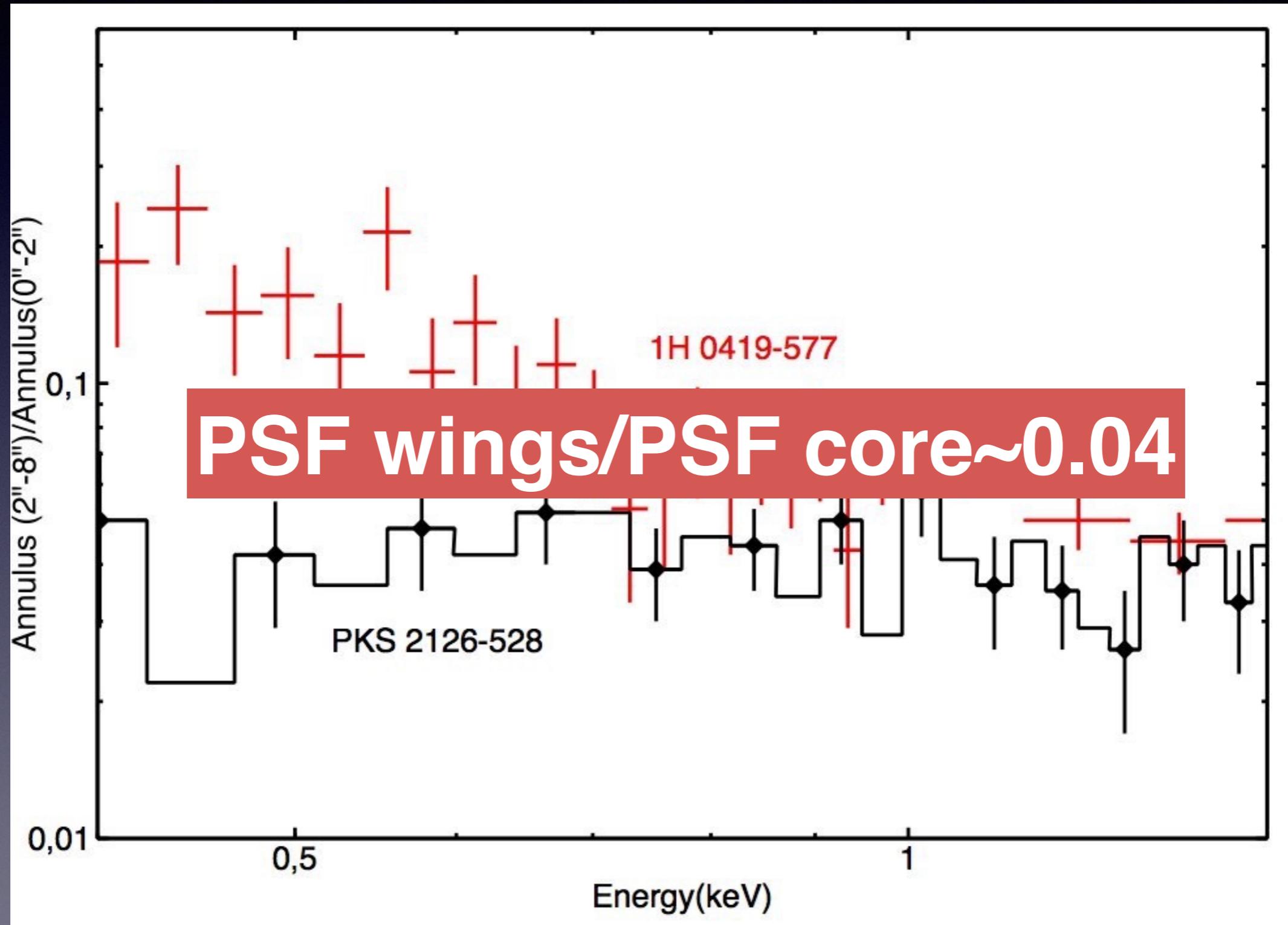
Surface brightness profile



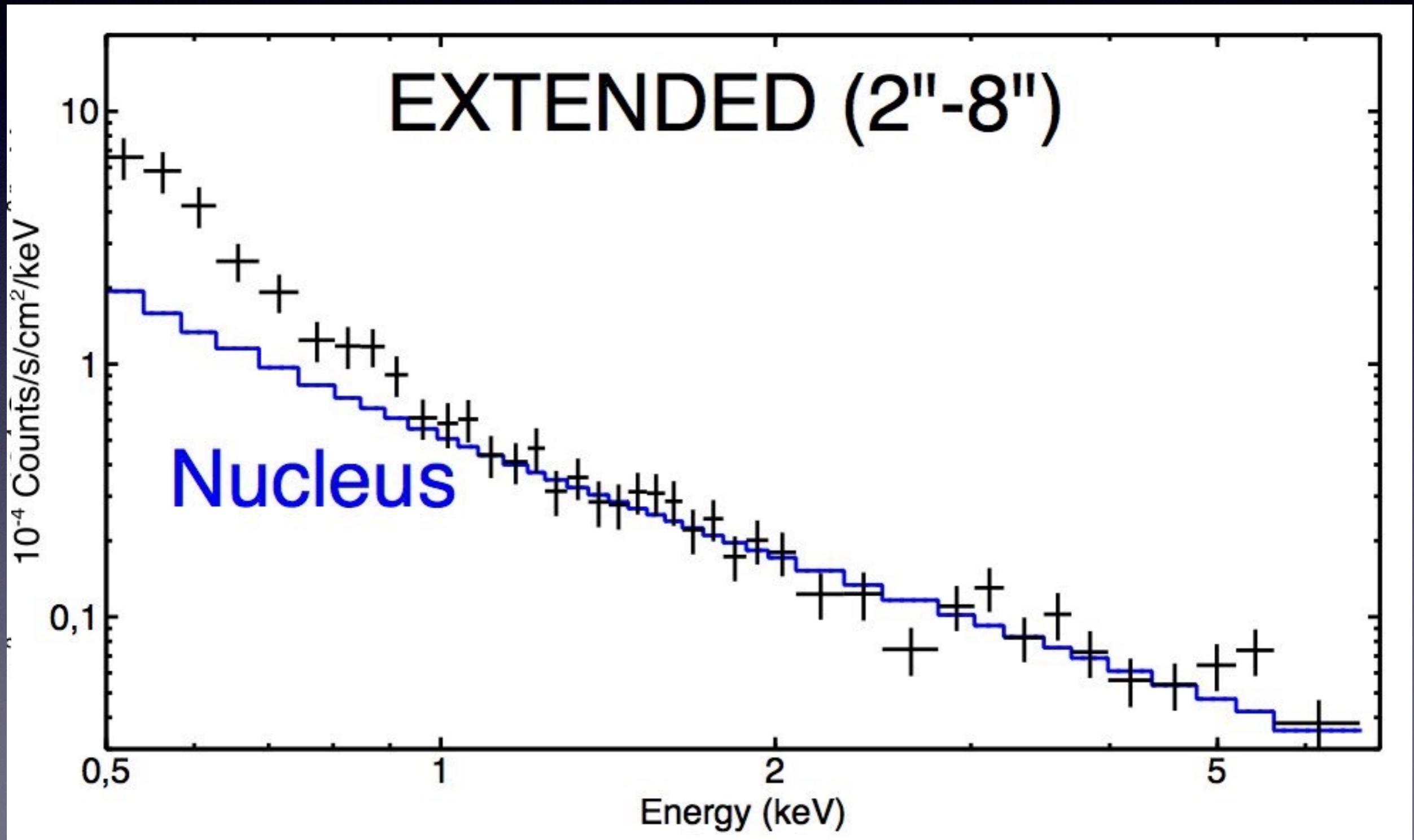
Spectrum



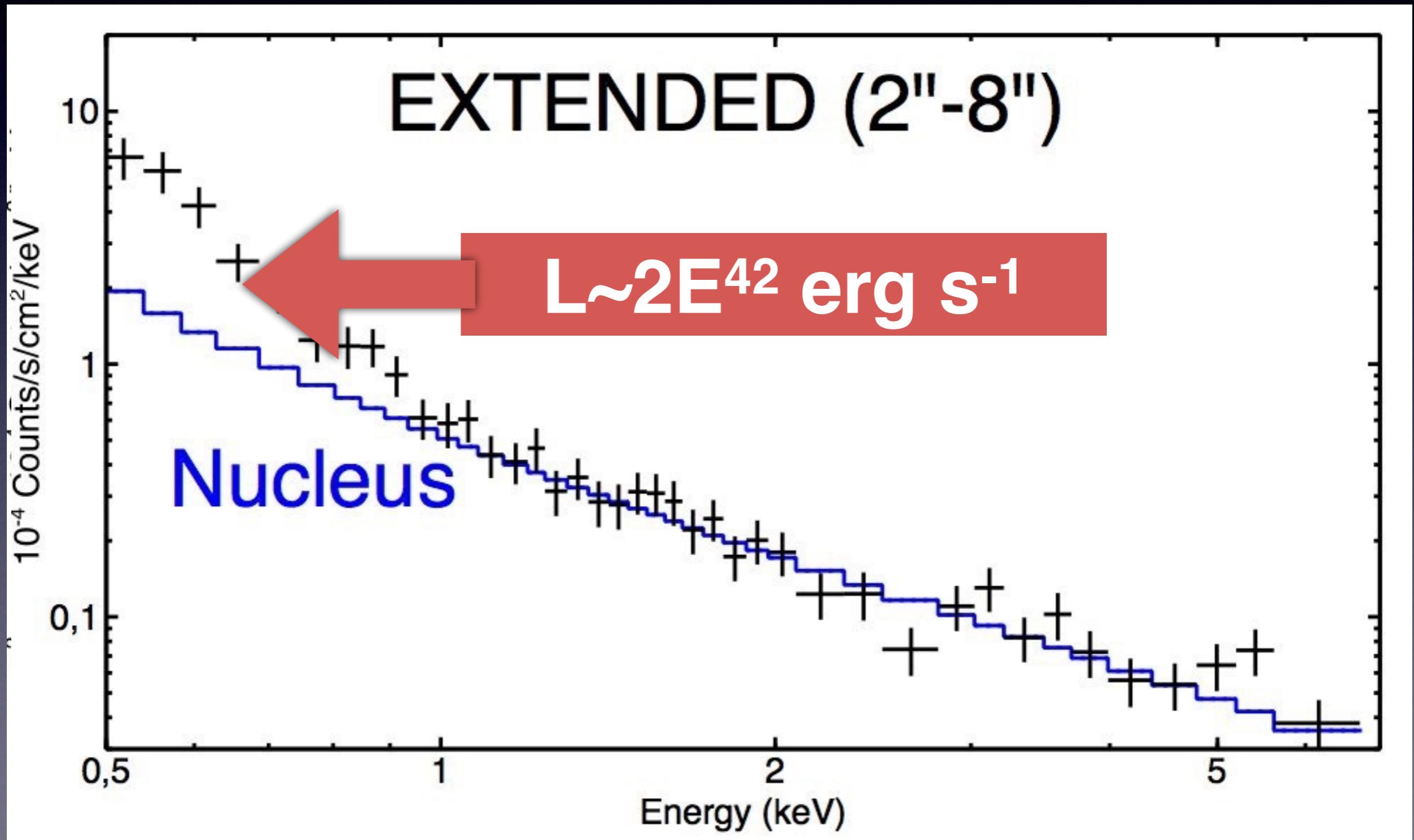
Spectrum

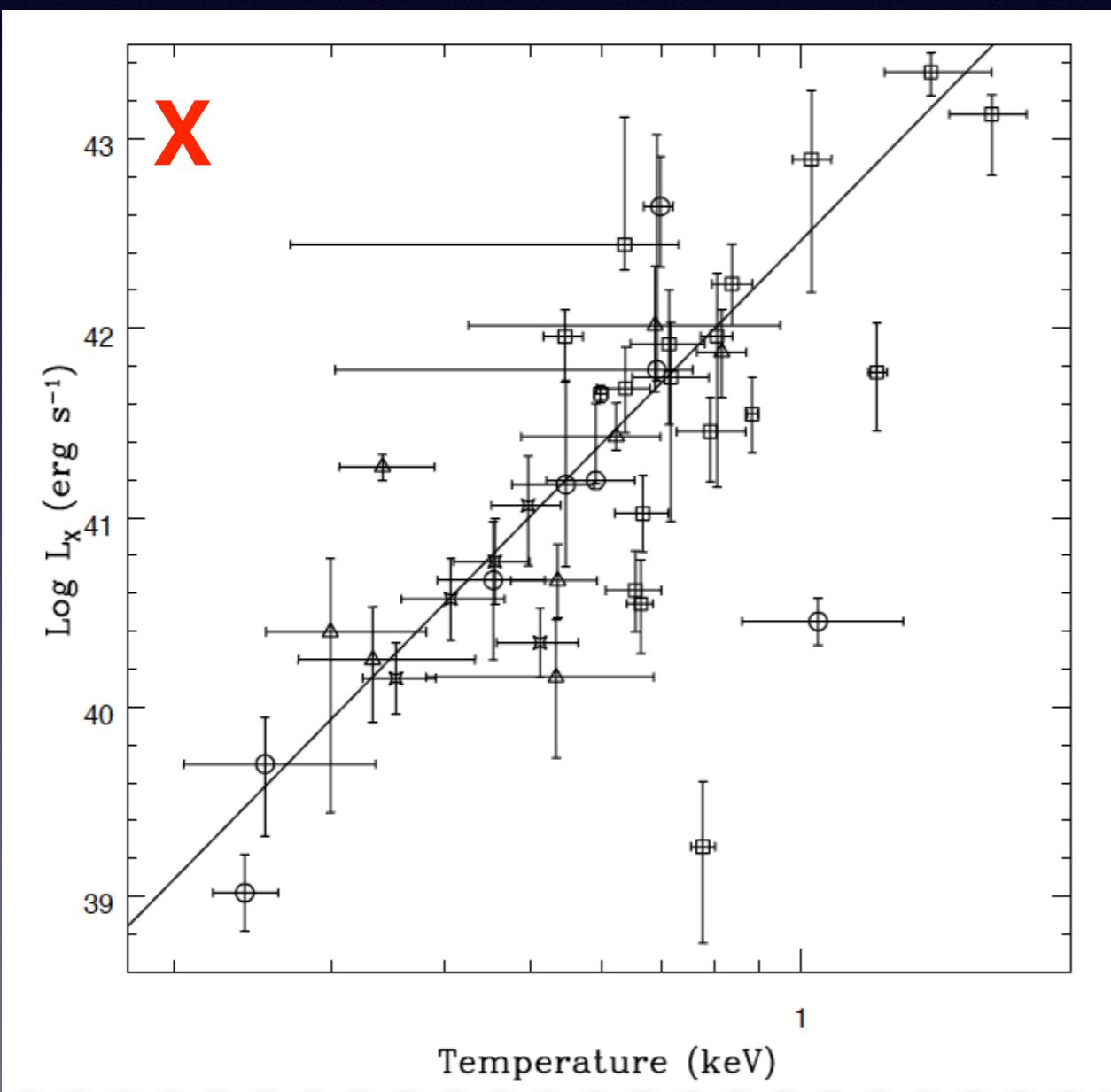


Modeling the nuclear contamination



Modeling the nuclear contamination





DUE to the X-ray halo

due to the starburst

$$L_{24\mu\text{m}} = 9 \times 10^4 L_\odot$$

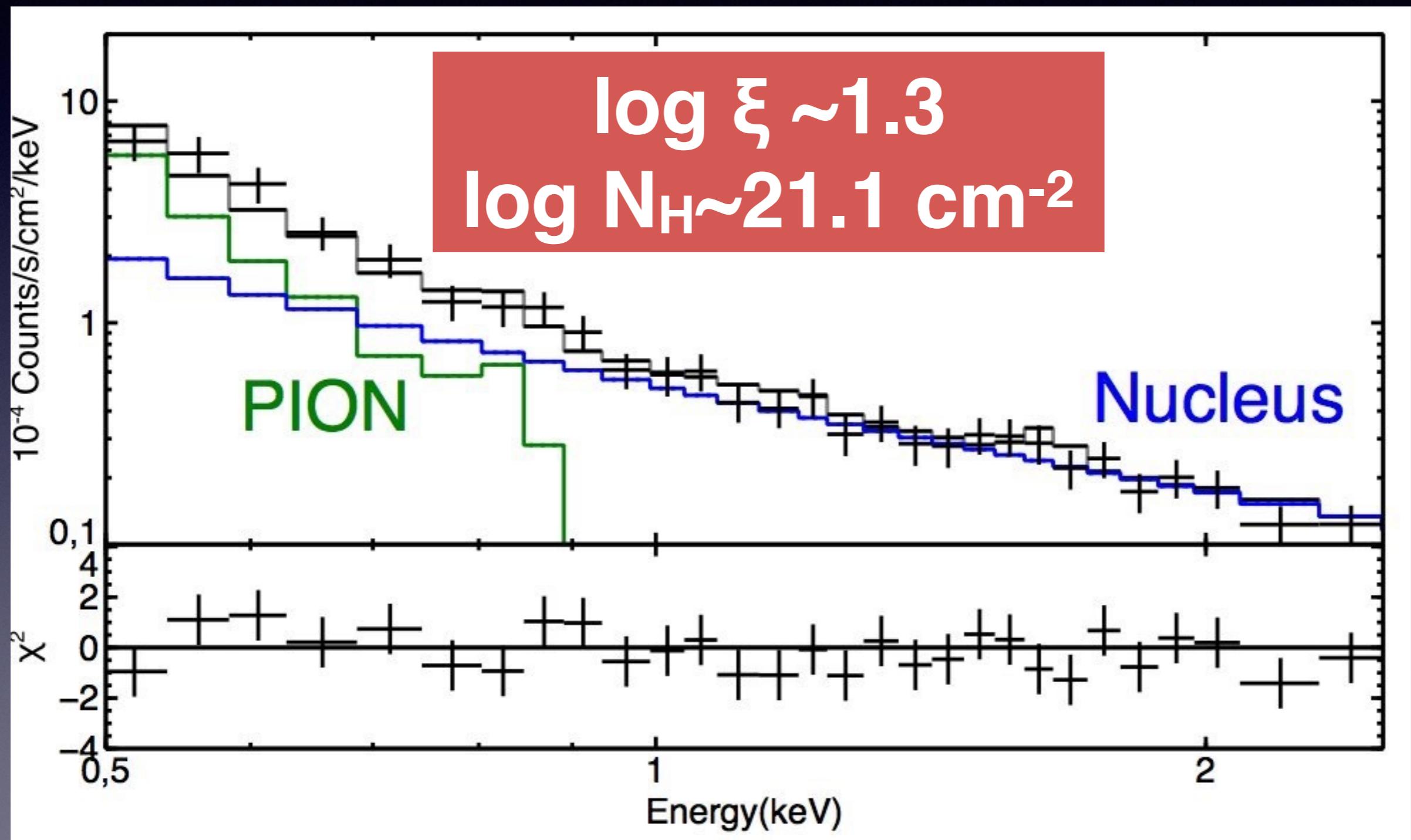
Rieke 2009

SFR < 70 M_⊙/yr

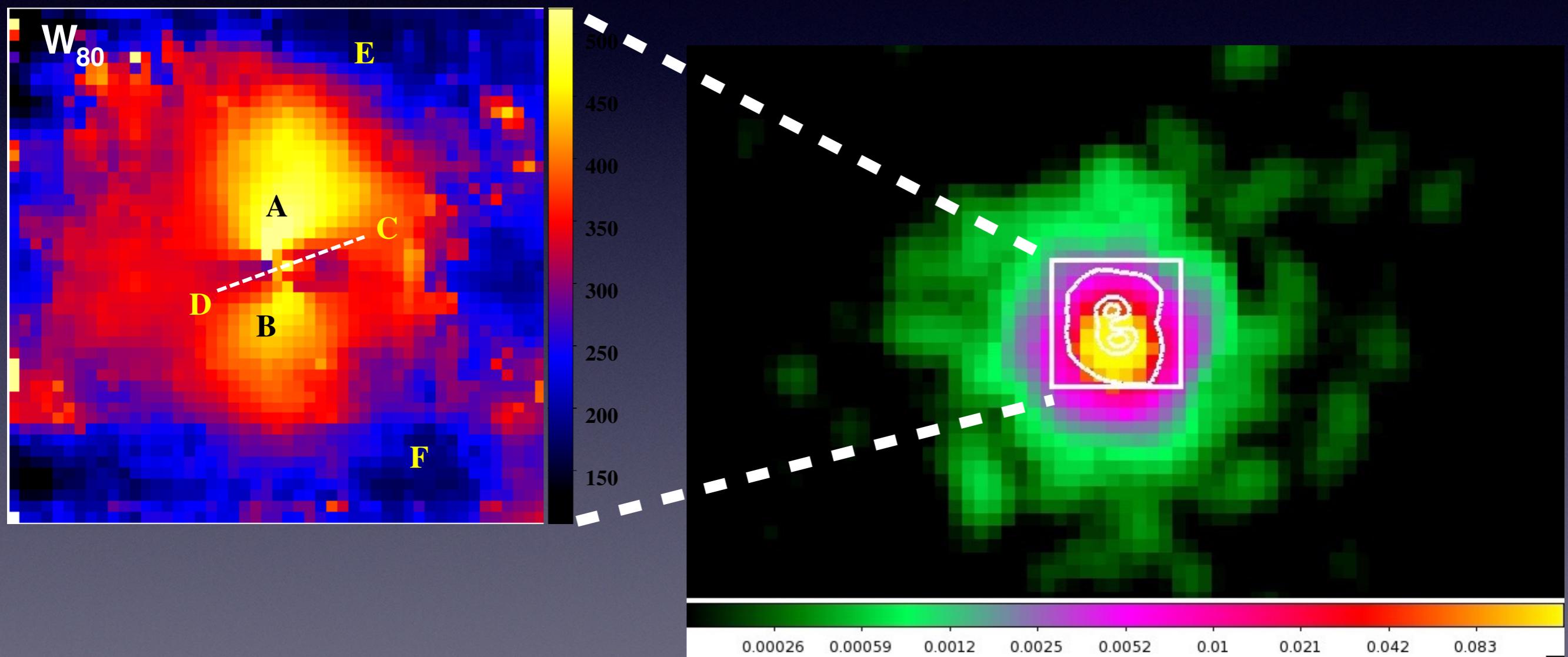
Ranalli 2003

$L_{x,\text{SFR}} < 3 \times 10^{41} \text{ ergs s}^{-1}$

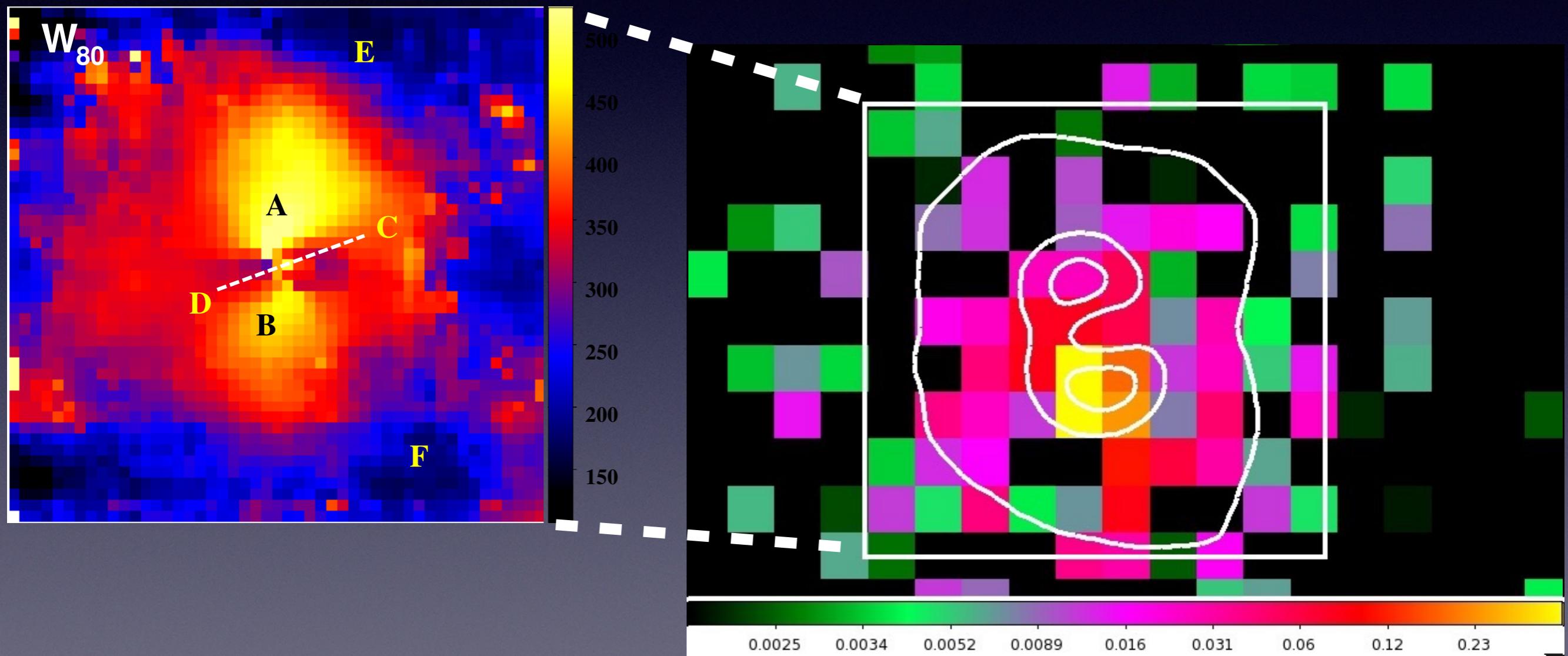
Photoionized Nebula



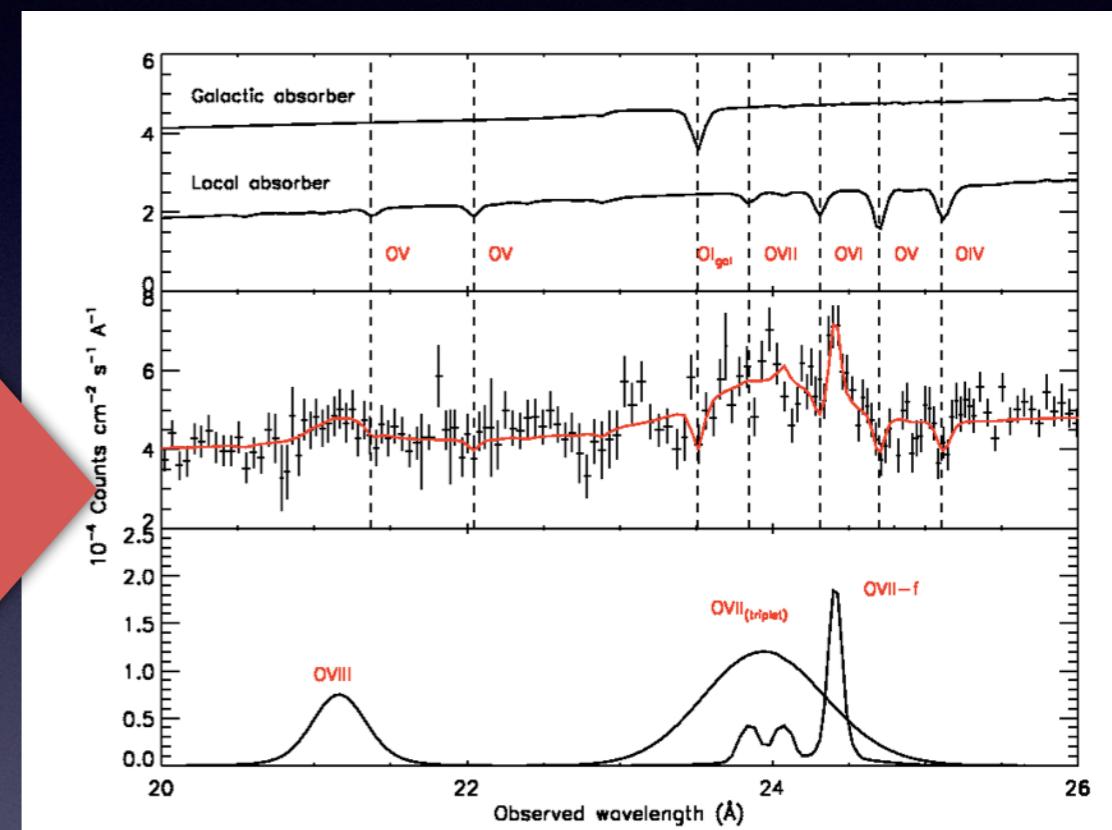
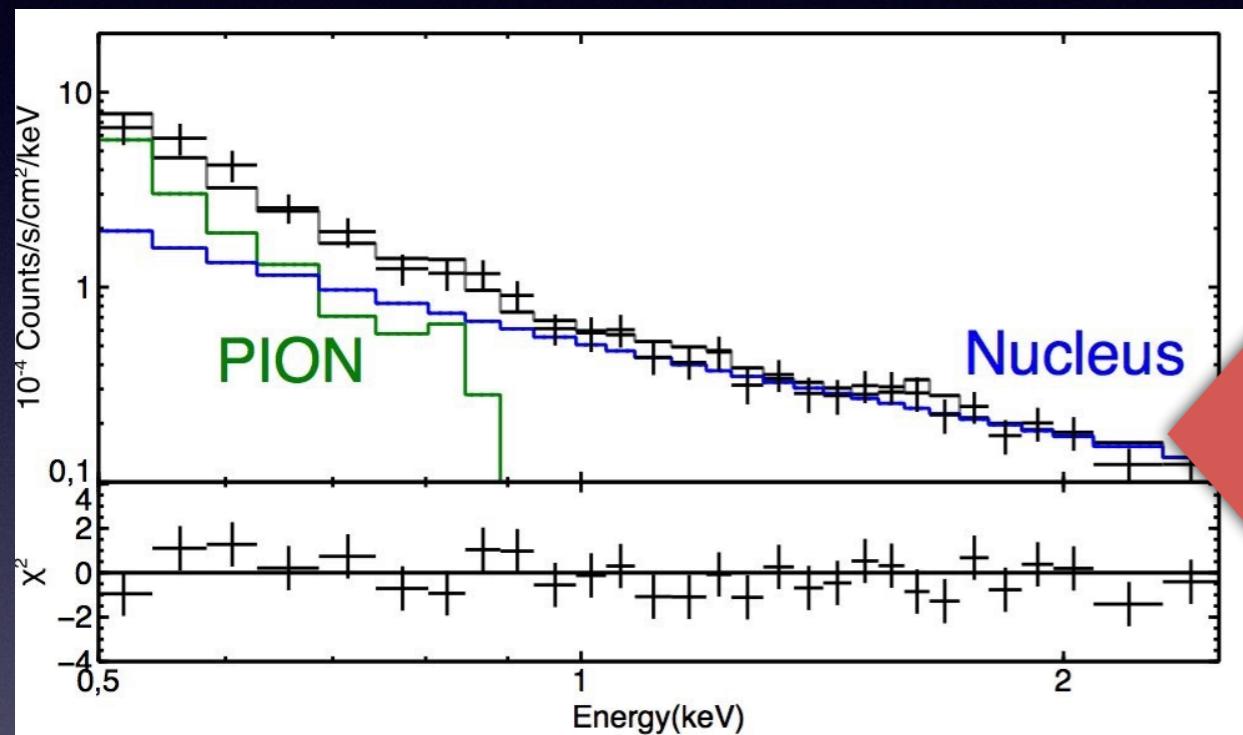
[O III] vs soft X-ray



[O III] vs soft X-ray



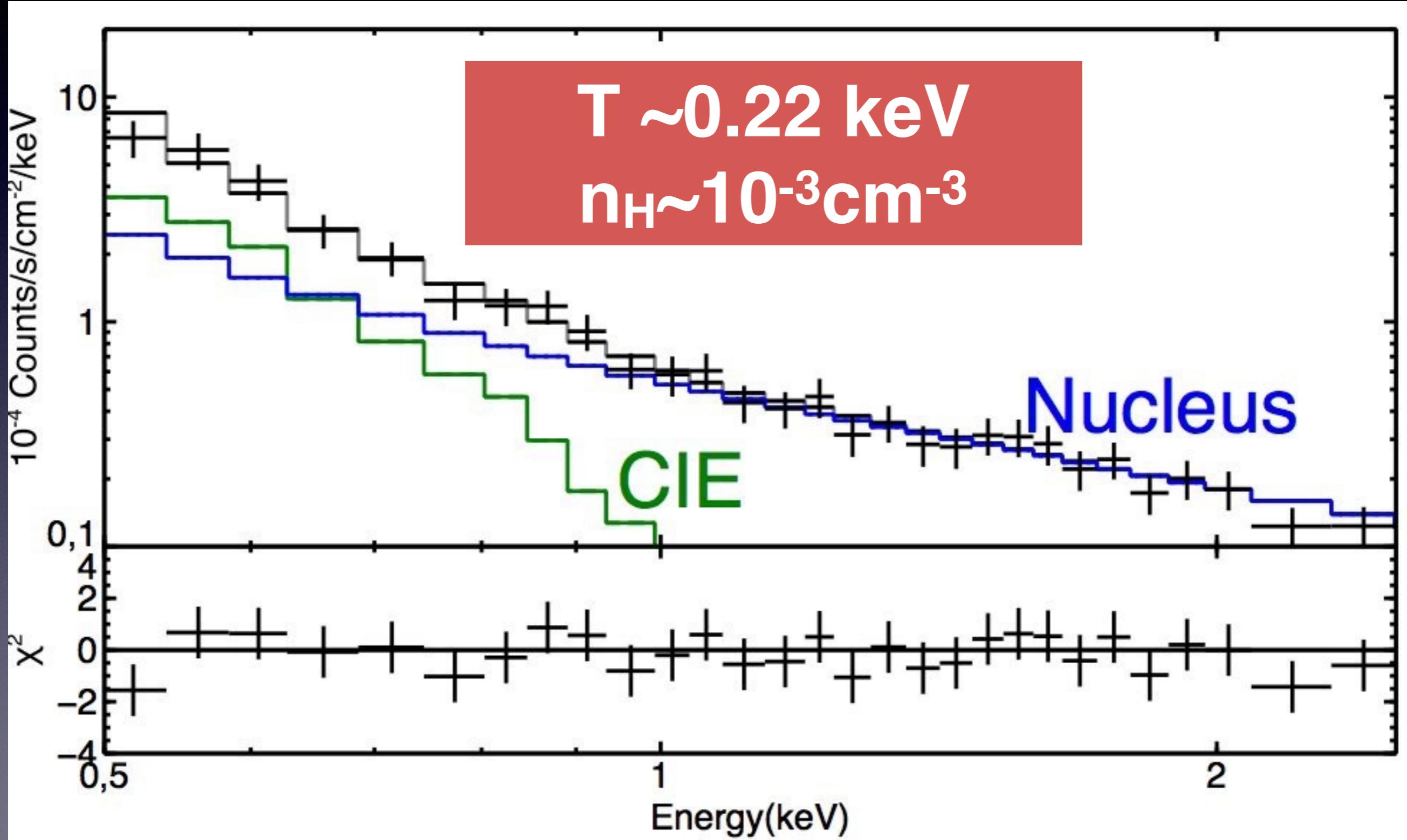
No connection with the WA



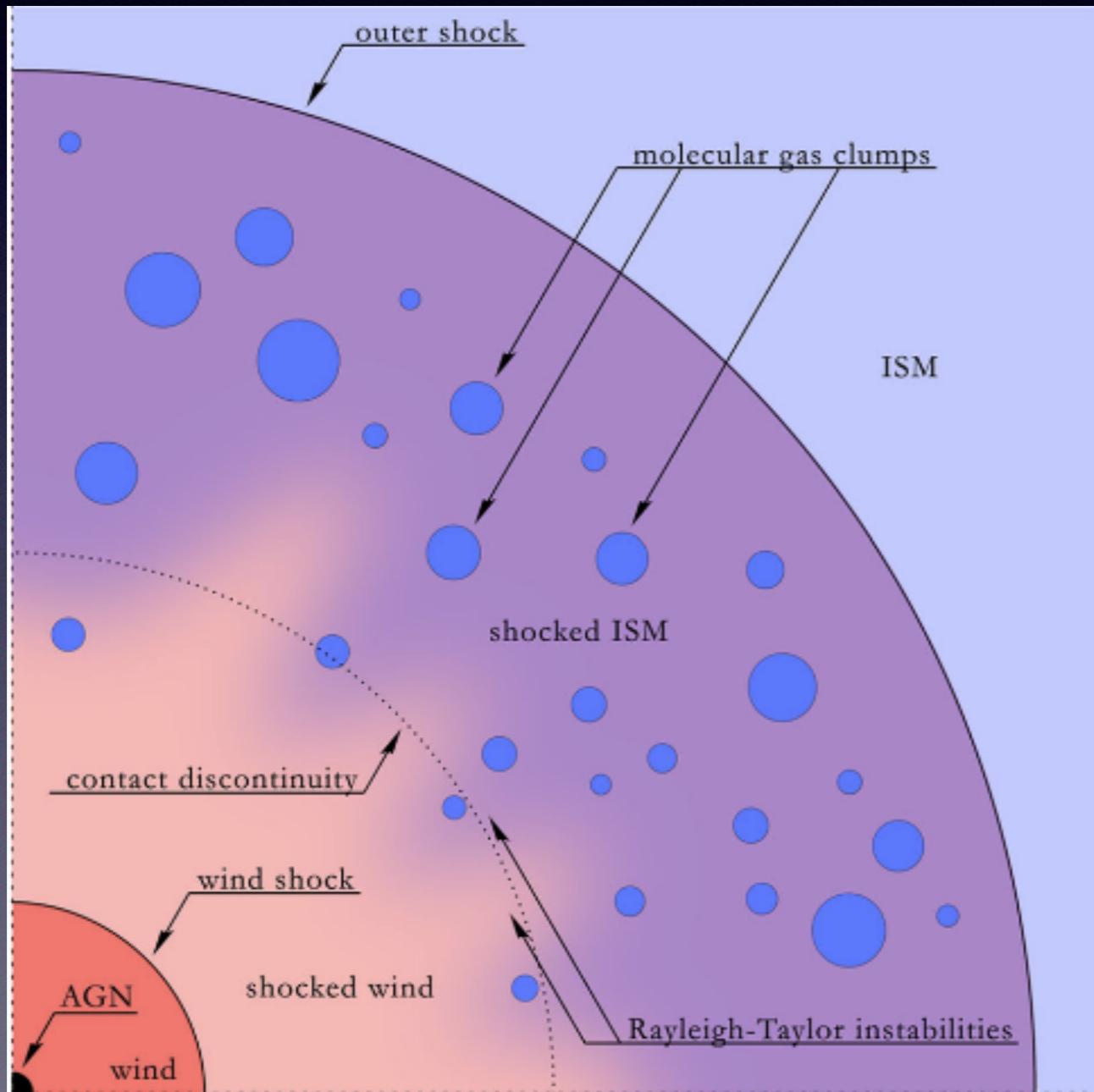
$\log \xi \sim 1.3$
 $\log N_H \sim 21.1 \text{ cm}^{-2}$

$\log \xi \sim 0.03$
 $\log N_H \sim 19.9 \text{ cm}^{-2}$

Shocked gas



Cooling of a shocked wind bubble



...but see also
e.g.
Costa+15
Liu+13

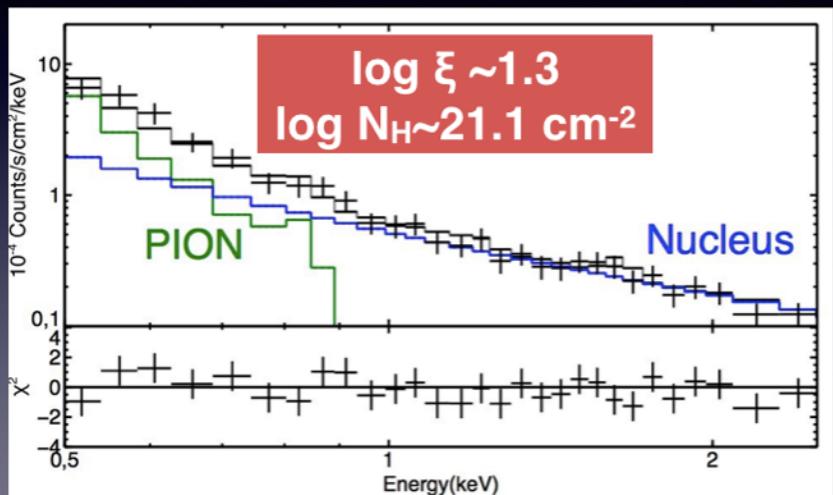
Conclusion



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Conclusion

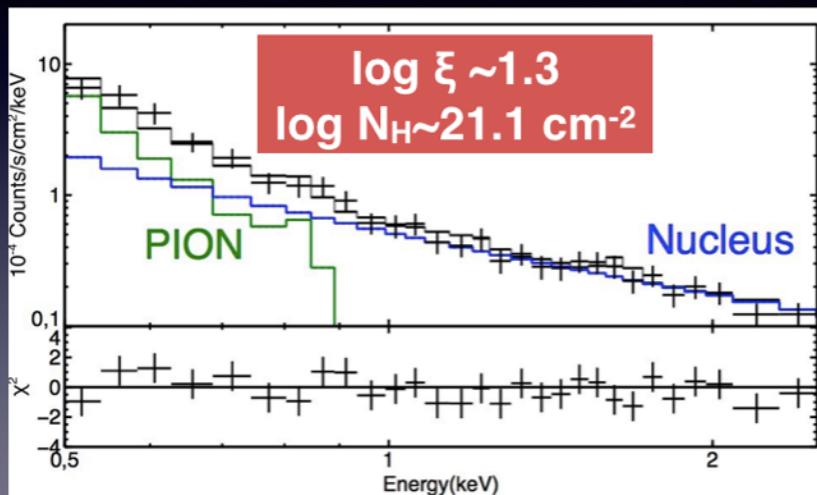
Photoionized Nebula



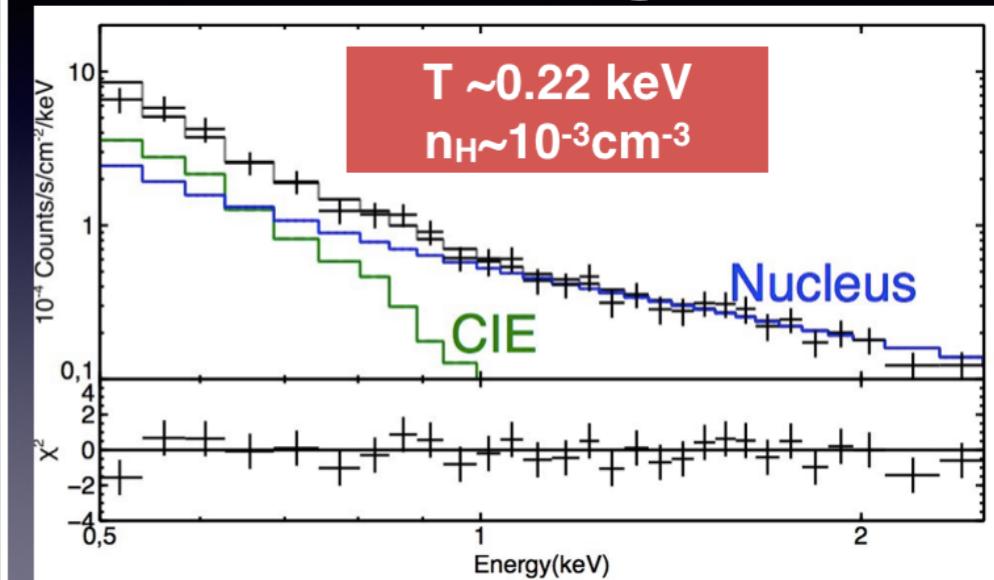
different from
photoionized absorber

Conclusion

Photoionized Nebula



Shocked gas

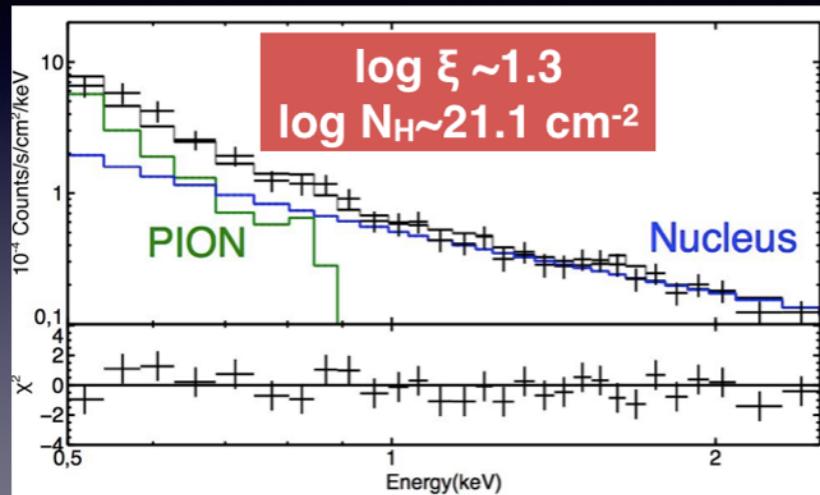


different from
photoionized absorber

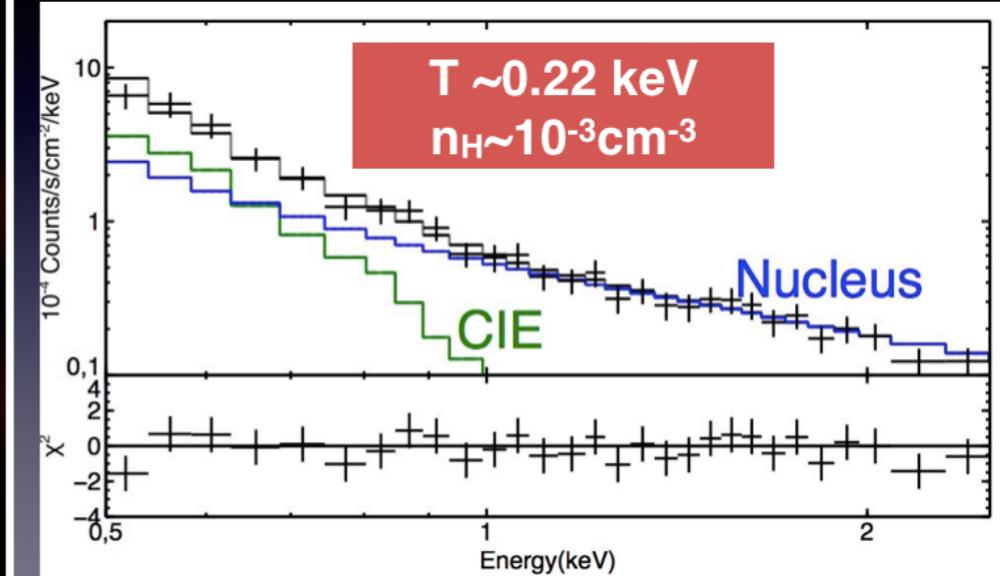
associated w
wind bubb

Conclusion

Photoionized Nebula



Shocked gas



different from
photoionized absorber

associated w
wind bubb

.....THANKS FOR YOUR ATTEN