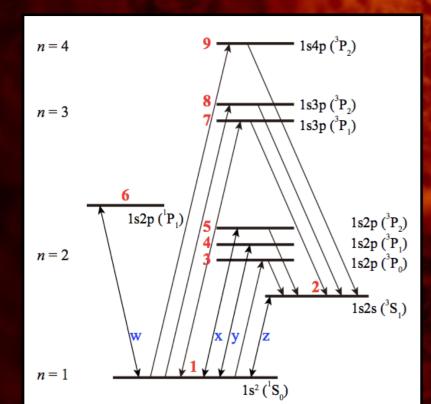
IroniKaL Emission in Perseus: Preparing Cloudy for the X-ray microcalorimeter era

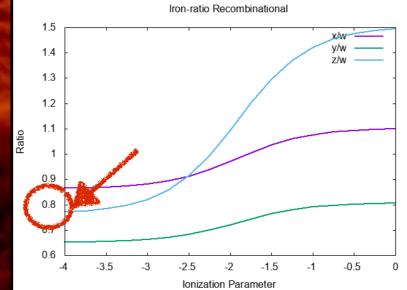
প্রিয়াঙ্কা চক্রবর্তী, Μάριος Χατζίκος, Francisco Guzmán Fulgencio

Hitomi Observed Perseus spectra of Zhang & Sampson (1987) data Ratio of Iron lines vs LogT **Helium Like Iron** bring agreement with observations Iron ratio- Collisional case 1.4 1.6 Fe XXV He a Observed intensity y/w 1.3 1.4 7/w ratio of interest: z = 0.017561.2 1.5 $\sigma_{\rm c} = 164 \ \rm km \ s^{-1}$ 1.2 z/w = 0.40 + - 0.031.1 - s Iron ratio ron ratio counts 0.9 0.8 s' 0.7 0.5 0.5 0.4 7.2 7.2 7.4 7.8 8 6.55 6.60 7.6 E, keV LogT

Iron ratio- Ionization Parameter -4 Zheng87 y/w 7.4 7.8 7.6 8 LogT







Collisonal transitions between different spin systems have an effect on line ratios.

