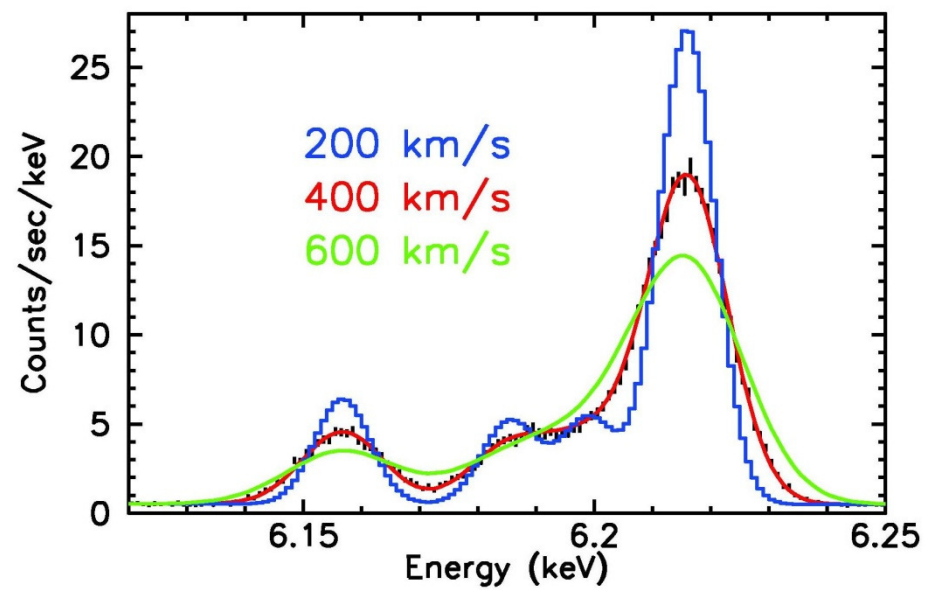
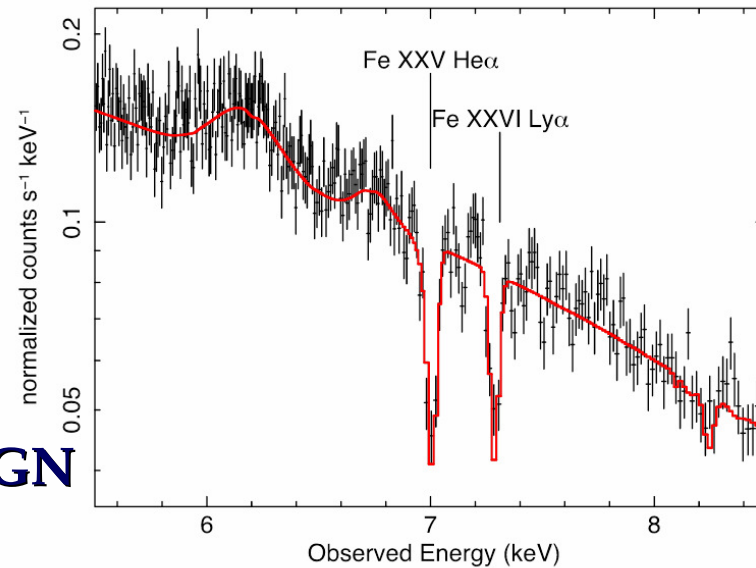


ASTRO-H

TURBULENT VELOCITY IN CLUSTERS OF GALAXIES



3C 120 Astro-H 100ks ($v_{\text{turb}}=1000\text{km/s}$, Feb 2006)



FAST VELOCITY OUTFLOWS IN AGN

CONCLUSIONS

**PRESENTLY OPERATING MISSIONS ARE COVERING
A LARGE PART OF THE PARAMETER SPACE
(BAND, SPATIAL RESOLUTION, SPECTRAL
RESOLUTION IN SOFT X-RAYS)**

**NEAR FUTURE X-RAY MISSIONS WILL PROVIDE A
NEW ALL SKY SURVEY (eROSITA) AND HIGH
SPECTRAL RESOLUTION, HIGH EFFICIENCY OBS. AT
THE IRON LINE (ASTRO-H)**

**WHAT IS NEEDED NEXT? WHAT IS MISSING?
(POLARIMETRY FOR SURE...)**