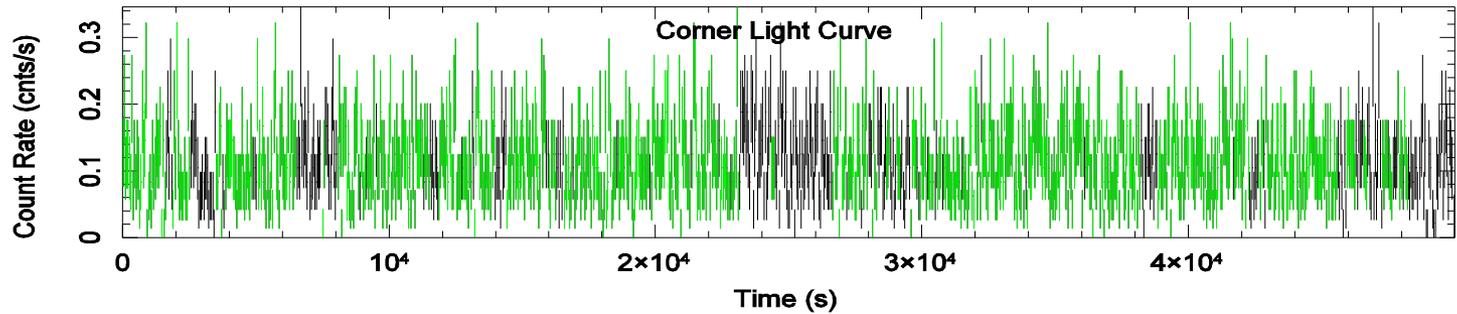
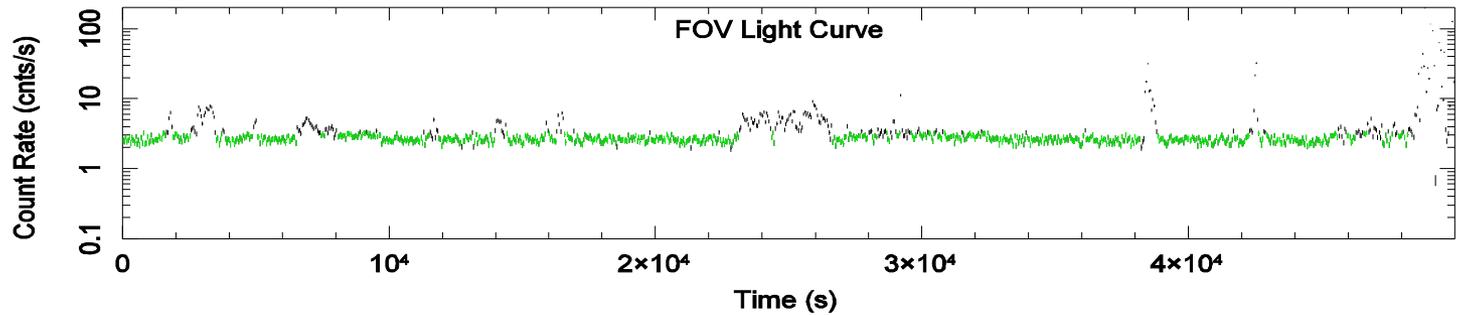
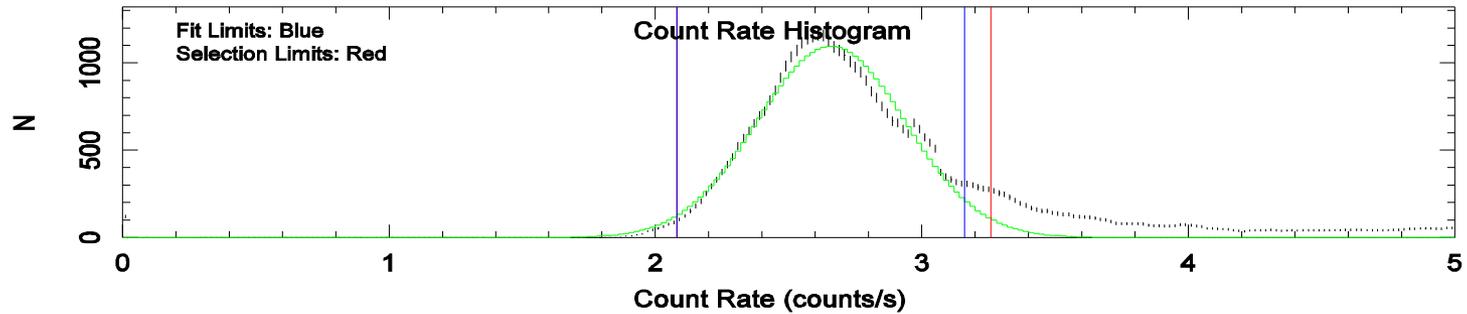


Clusters Galore

- So far 45 processed clusters
- Selection
 - >10 ks good time
 - Isolated and reasonably symmetric
 - Large enough to be interesting (RASS)
- Processing
 - Filter SP flares
 - Extract spectra from 10 standard annuli
 - Use XMM-ESAS to create background spectra
 - Use HEASARC X-ray Background Tool for RASS spectra
 - Use develop version arfgen to create cross arfs (thank you Richard)
 - Use Xspec V12 to fit the data (possible but needs work)
 - Remove brightest point sources

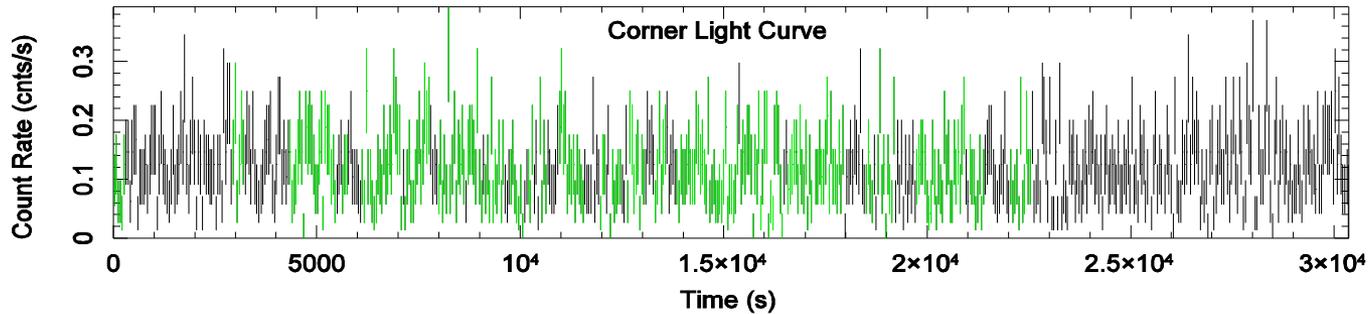
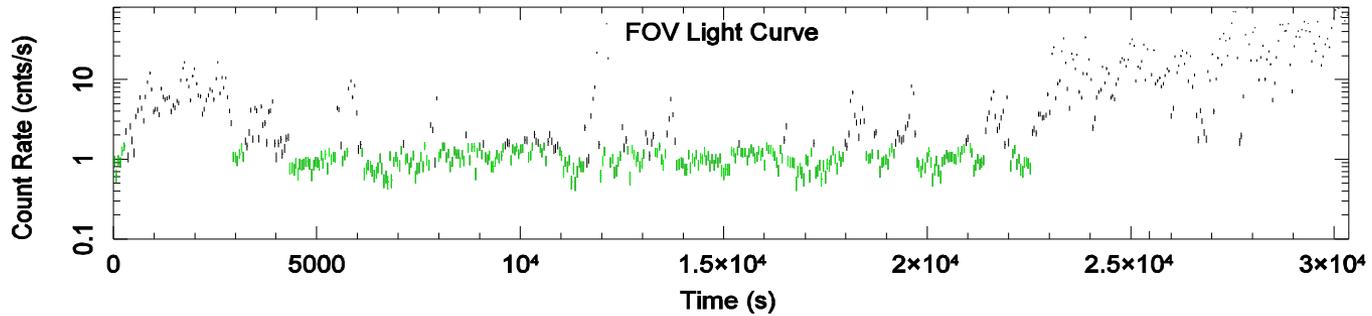
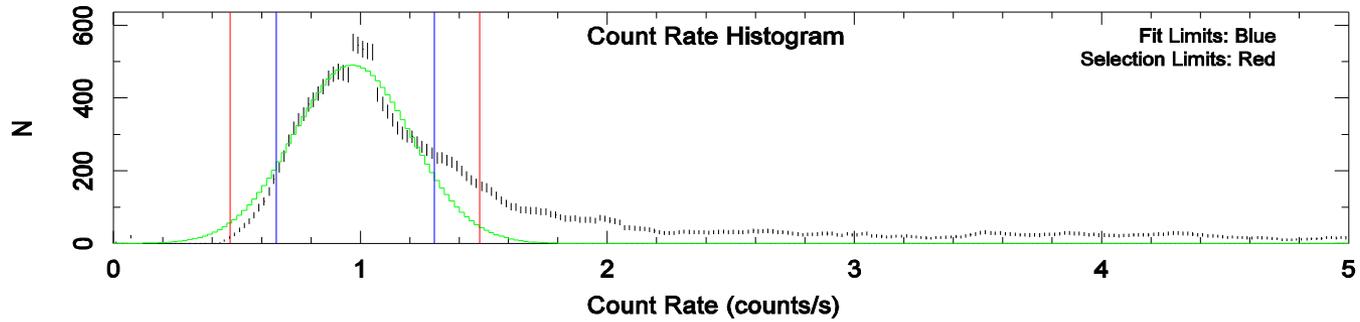
Light Curve Filtering

Abell 1795 - 0097820101



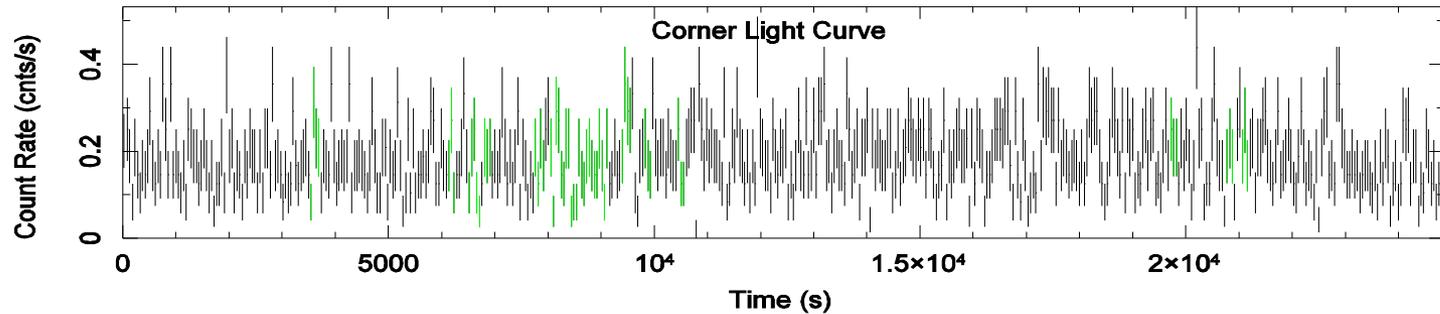
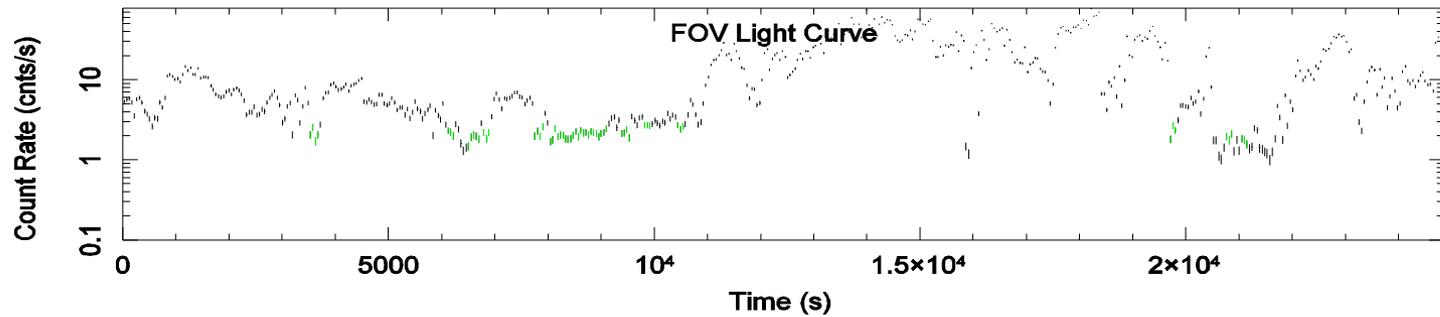
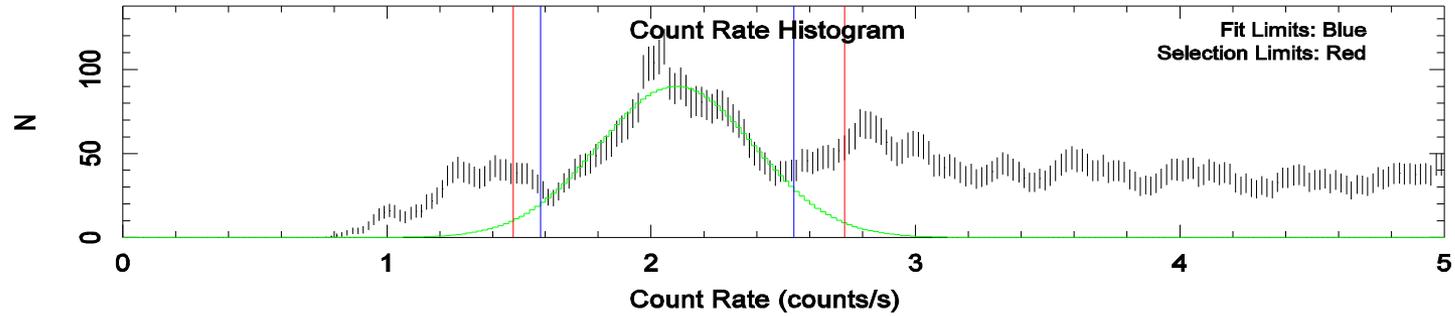
And Then The Others

Abell 2670 - 0108460301

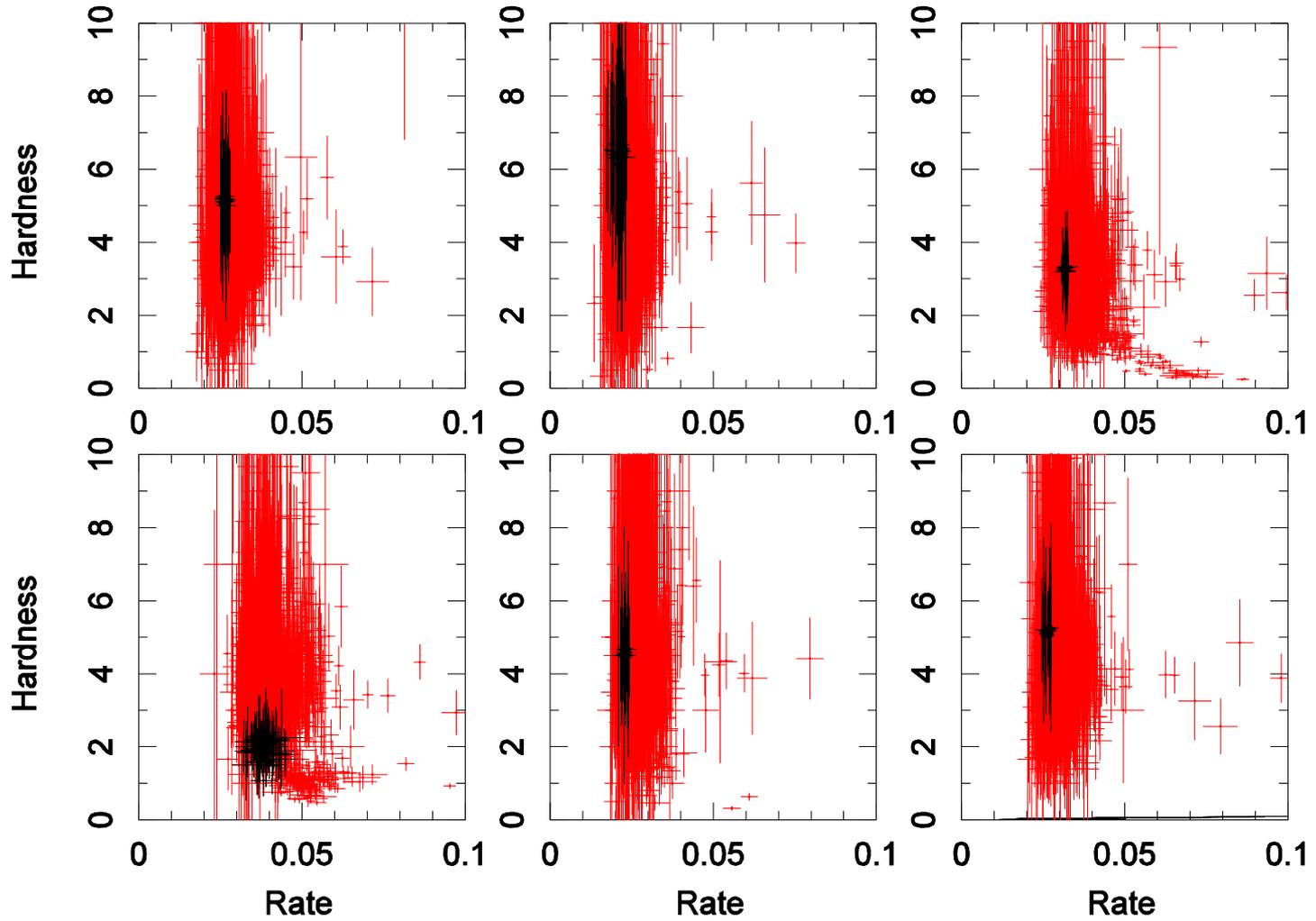


And Then The Others

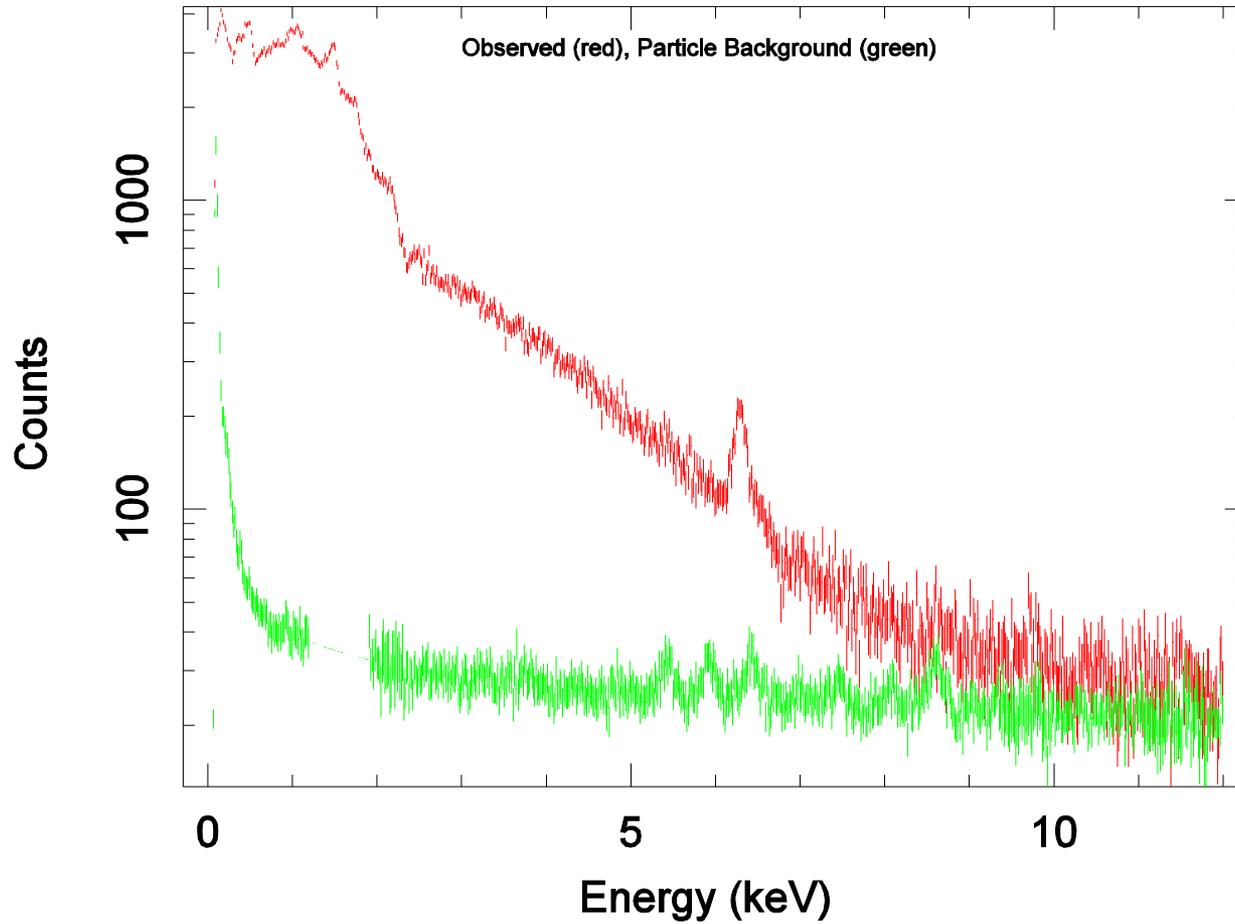
Abell 1664 - 0302030201



Select Acceptable Analogs

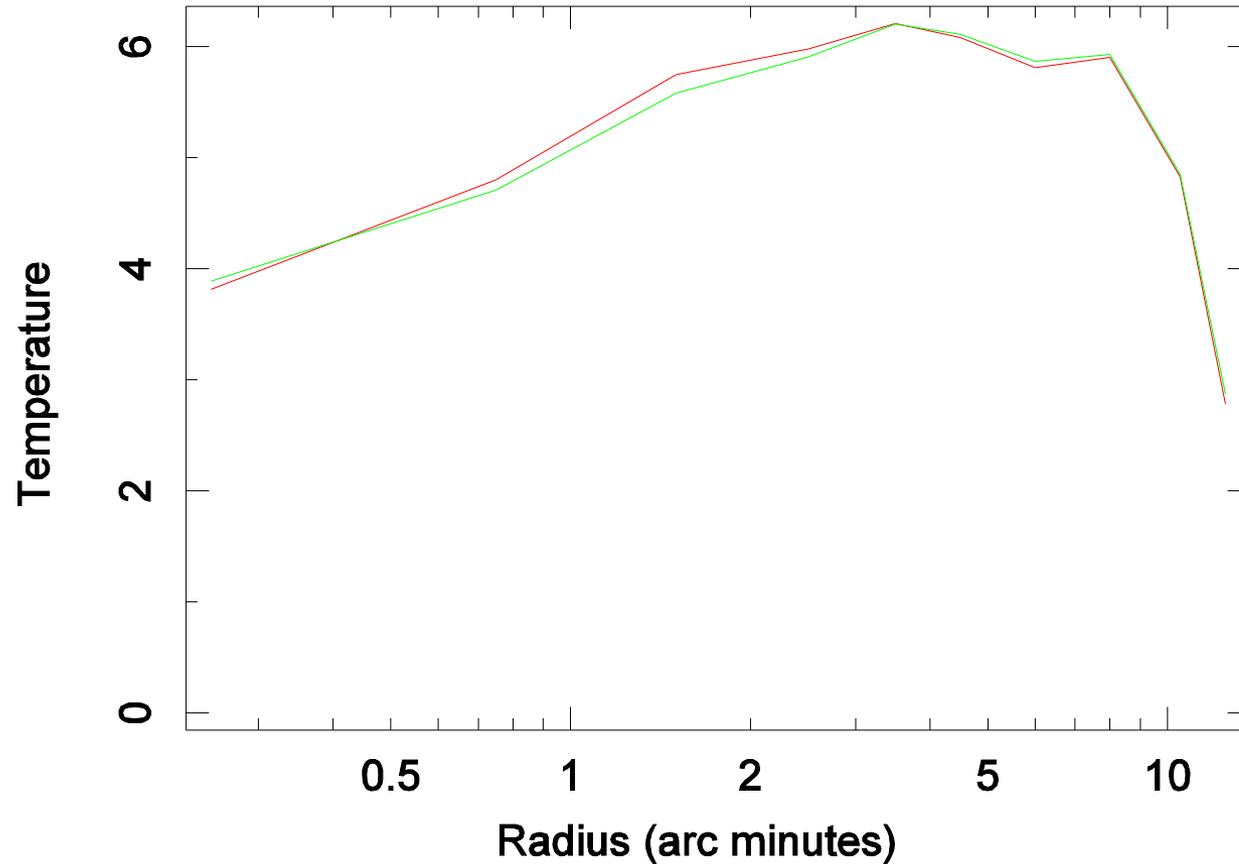


Create Background Spectrum

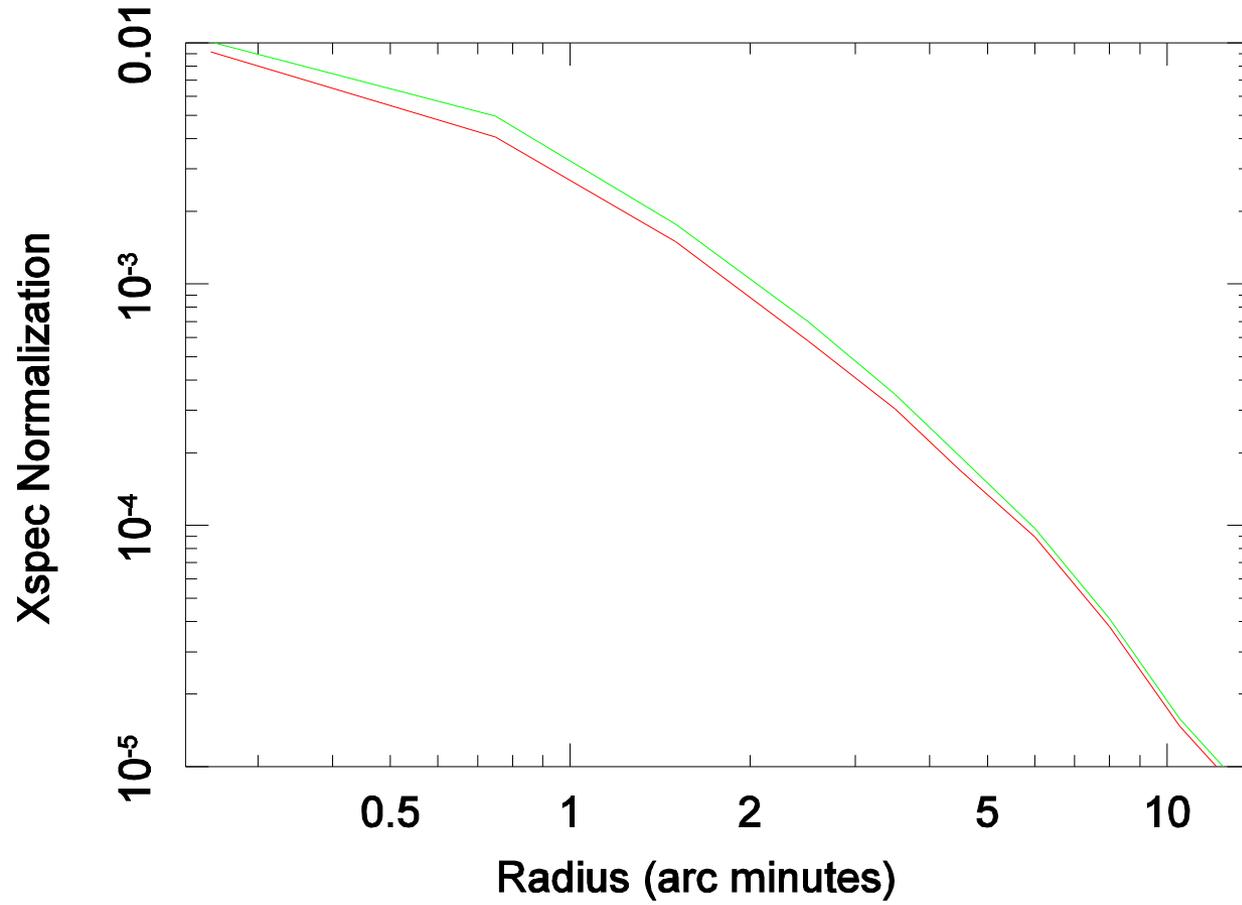


Why Cross ARFs?

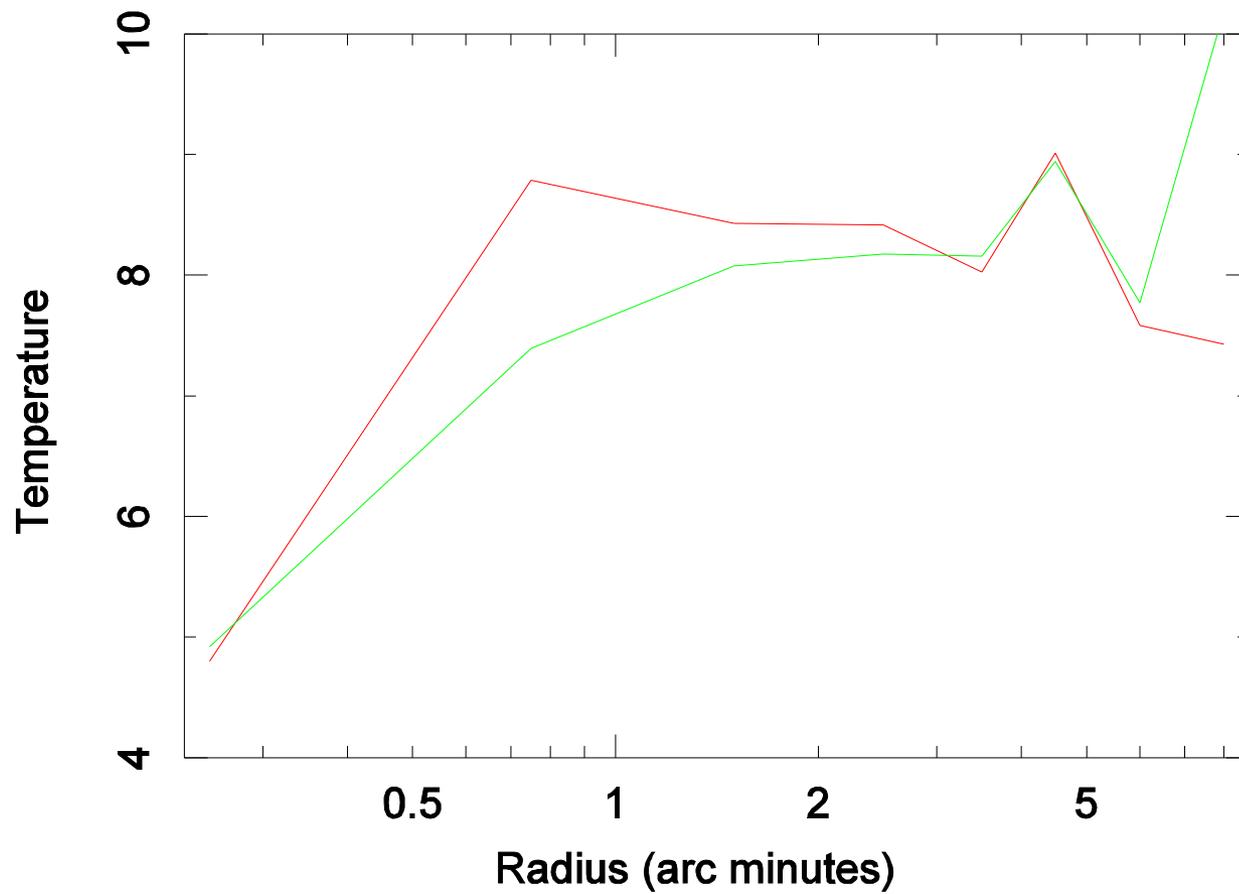
Abell 1795



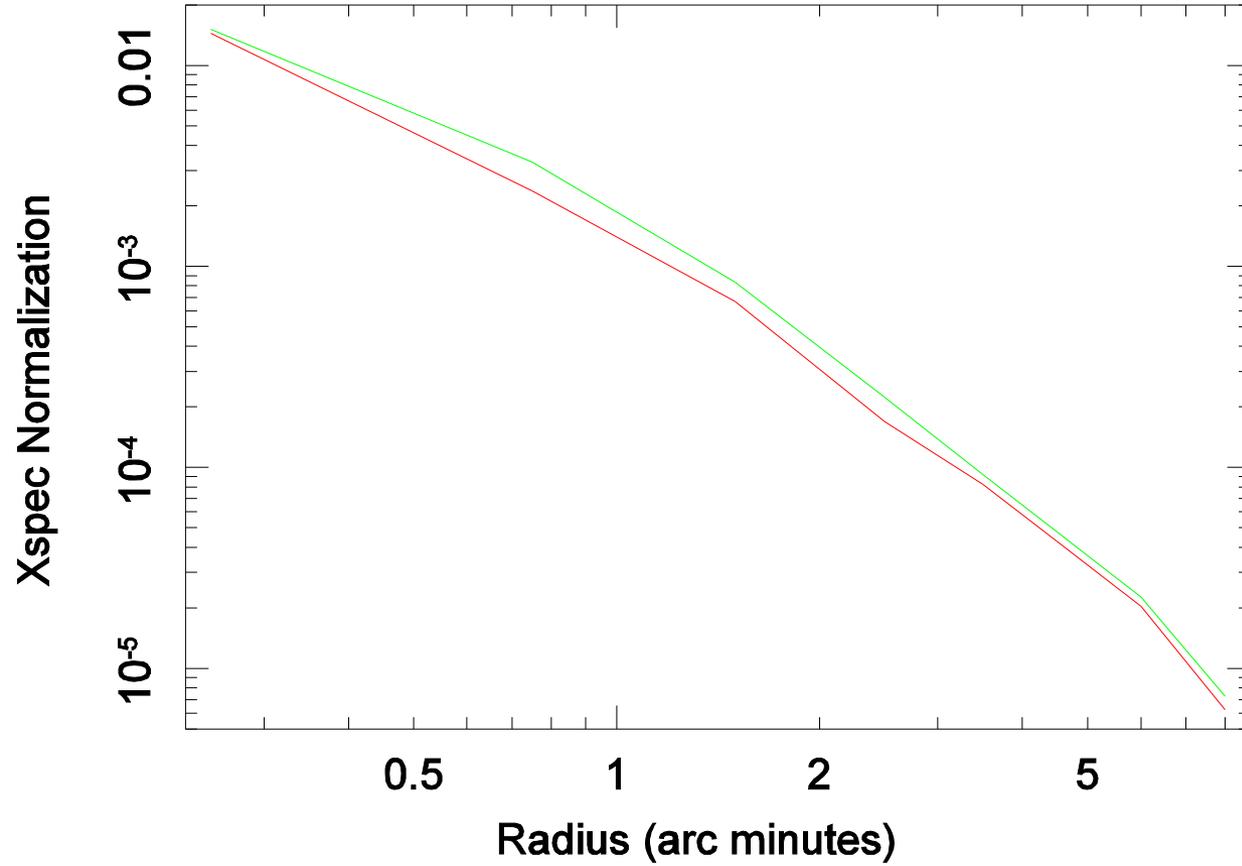
Abell 1795



Abell 2204



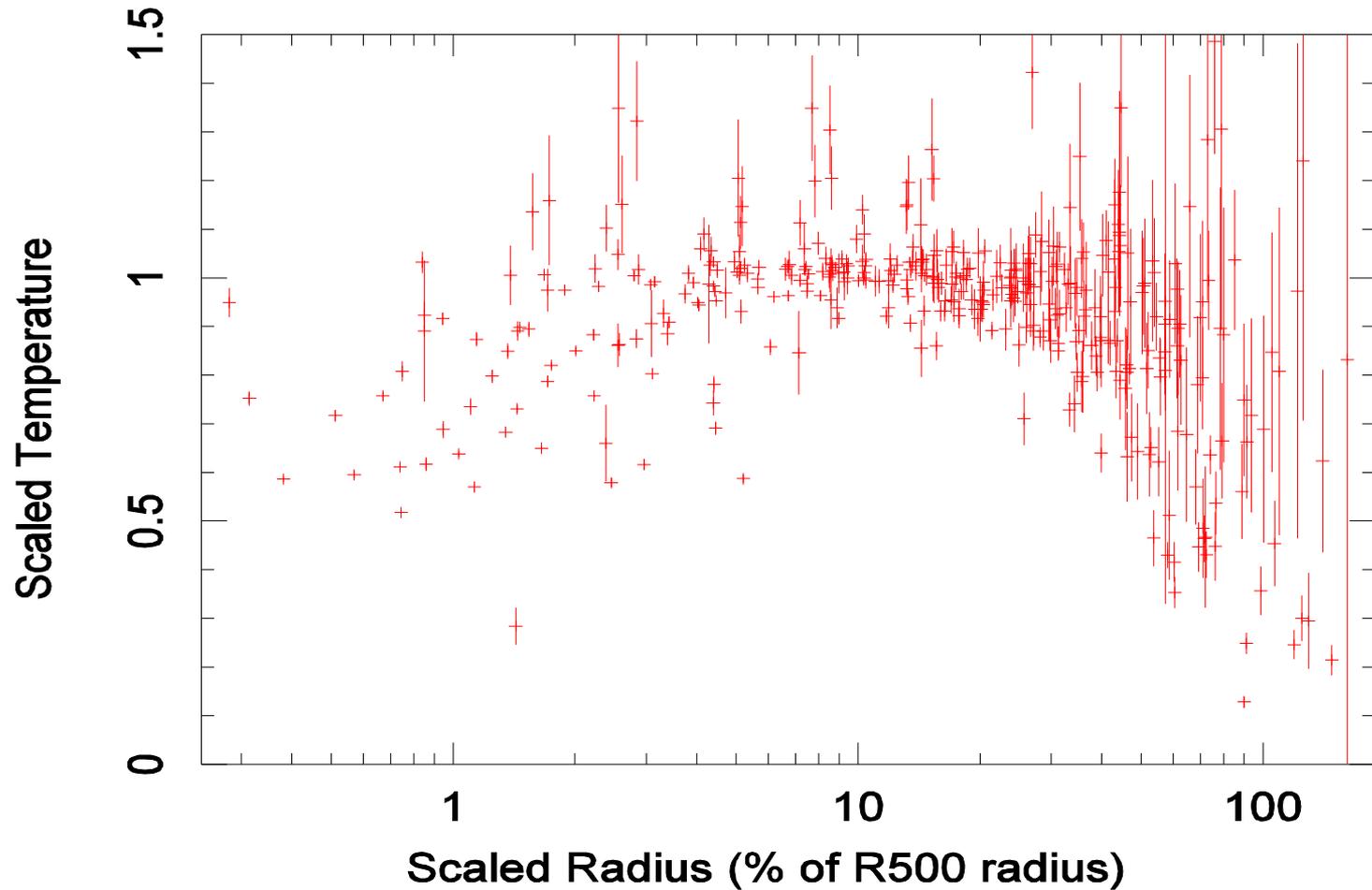
Abell 2204



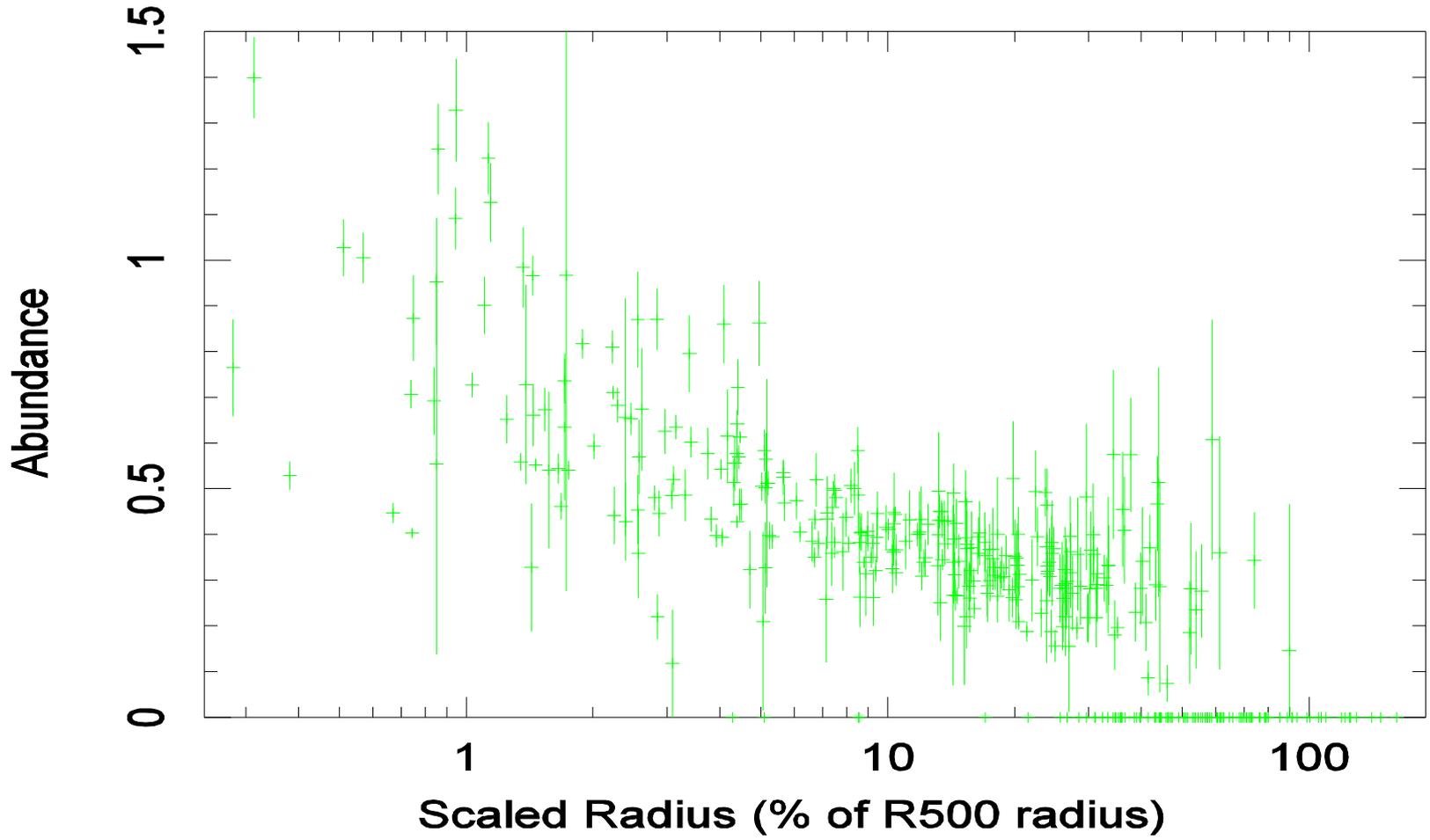
Analysis

- Just beginning
- Scale to R500 radius, basically the virial radius
 - $R_{500} = 2.6 (1 + z)^{-1.5} (T/10)^{0.5}$
- Temperature profiles vary considerably
 - Not as peaked as Chandra implies
- Abundances generally fall off from 1.0 to 0.3
- Fluxes fall off similarly

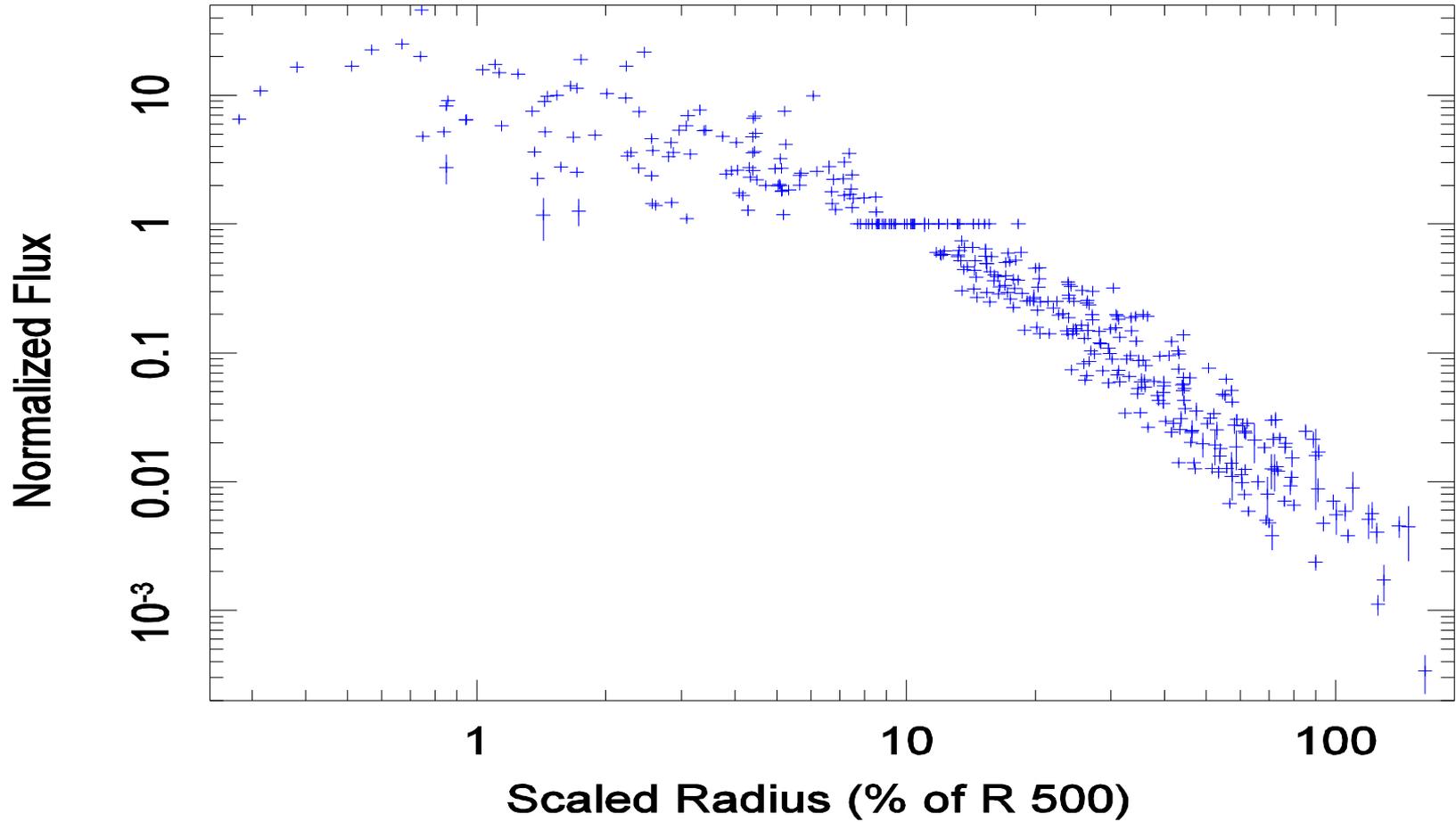
Temperature Radial Profiles



Abundances

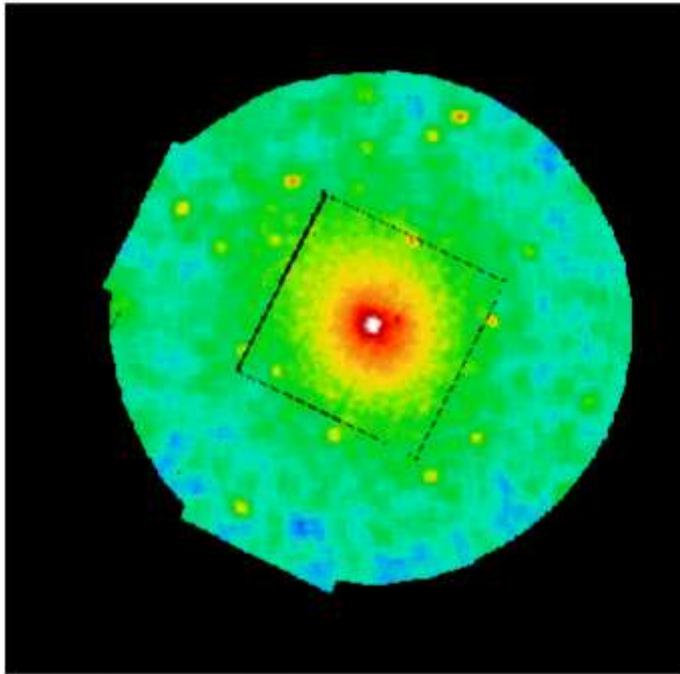


Flux



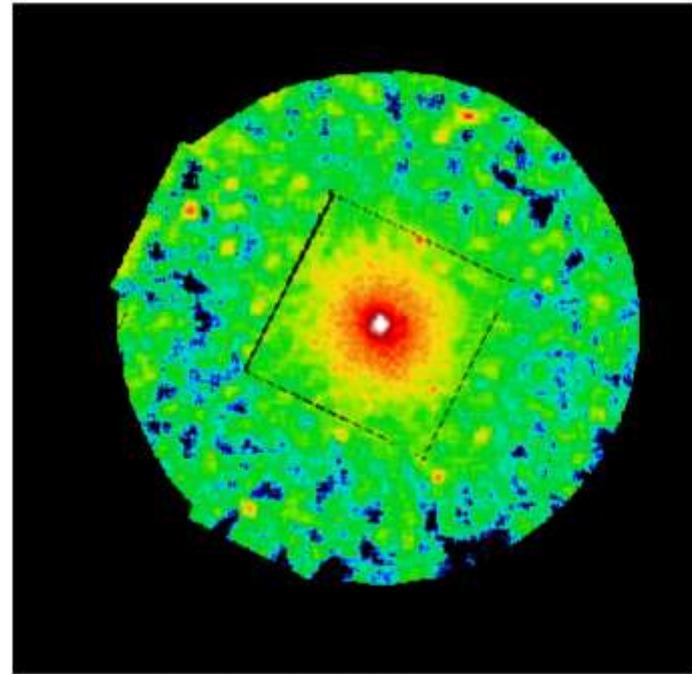
Pretty Pictures

Abell 2626



0.35 - 1.25 keV

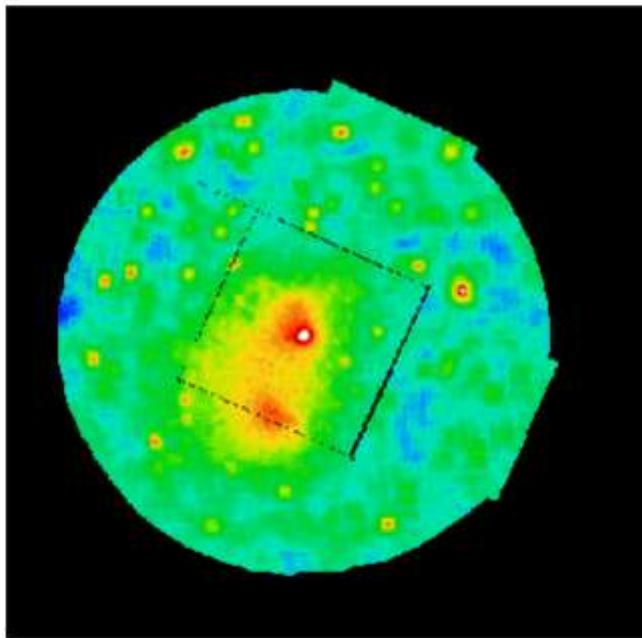
Log Scaling



2.0 - 8.0 keV

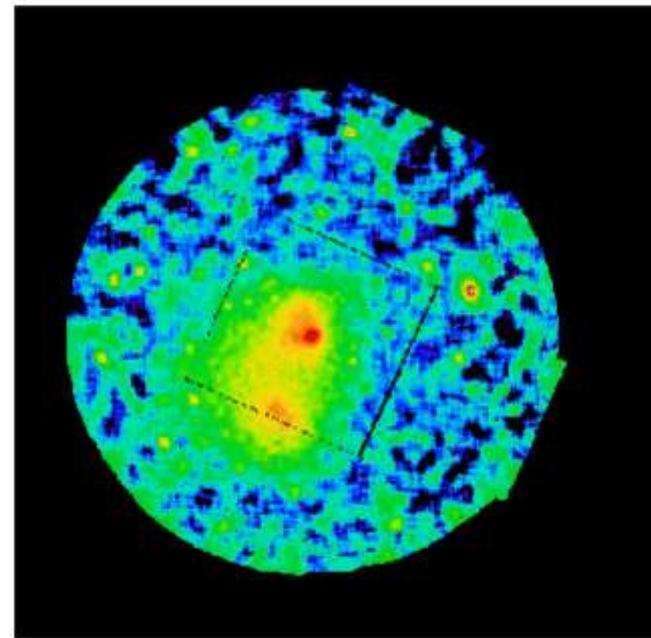
Pretty Pictures – Not Used

Abell 115N



0.35 - 1.25 keV

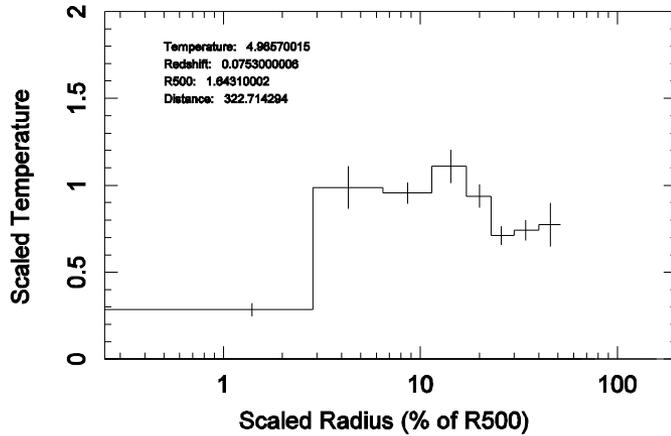
Log Scaling



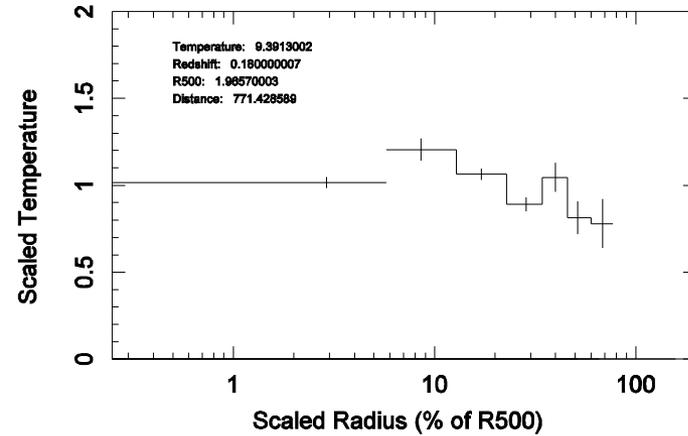
2.0 - 8.0 keV

Individual Cluster Temperature Radial Profiles

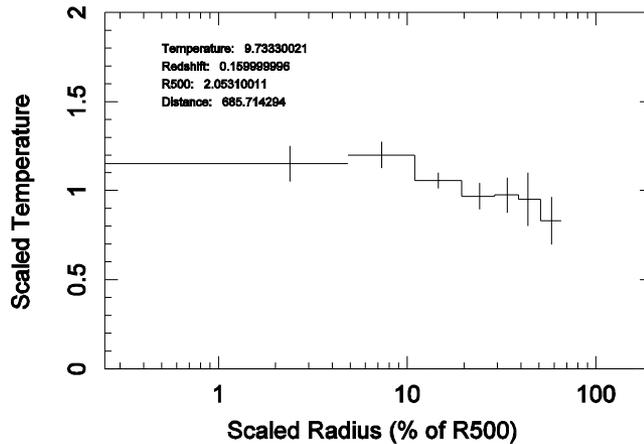
A1589



A1689



A1914



A2218

