

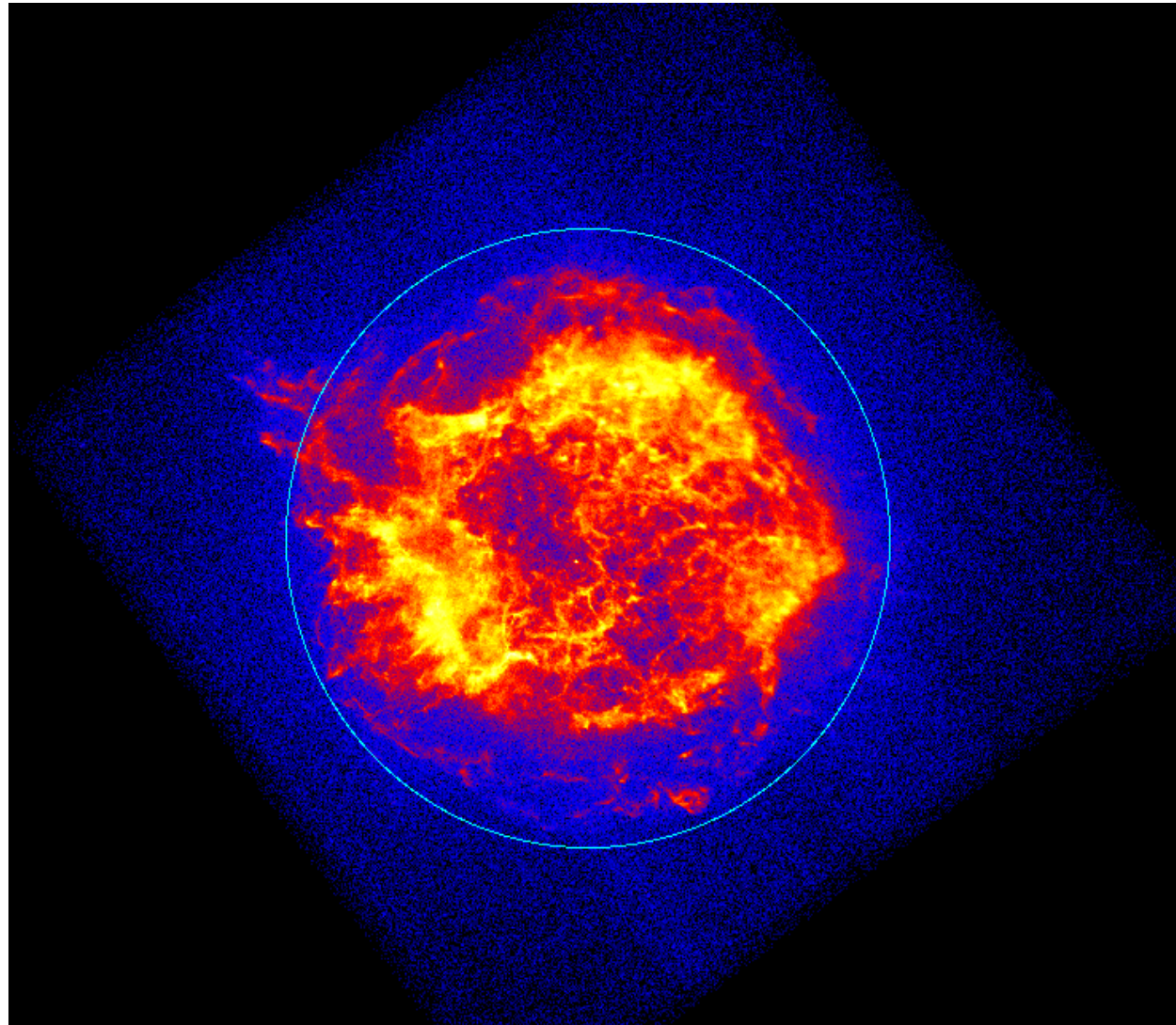
ACIS Cas A “Big” Model ~ 0.8-9keV

3 arcmin circle, RA/Dec= (350.86235, 58.81534)

tbabs * (nlapec + powlaw + 48 gaussians)

+ very-low-count S3 sky+instrumental background

- See: WG webpage for model pars:
<https://wikis.mit.edu/confluence/display/iachec/Cas+A>
^ upload imminent...
- $nH = 1.27$
- abund= wilm
- Non-Thermal: powlaw PhoIndx = 3.1
- Thermal $kT = 3.8$
- Thermal norm scaled:
 $17.8 - 0.00869 * \text{ObsDate}$
- Based on:
ACIS S3 GRADED mode ObsID 1952
Applied to S3 GRADED Obs 2000-2019



Lines from ATOMDB's brightest

@ hot&cold temperatures (kT ~1.5, ~7.5)

LineE initially based on ATOMDB #s

Bright triplets included:

LineE & norm tied

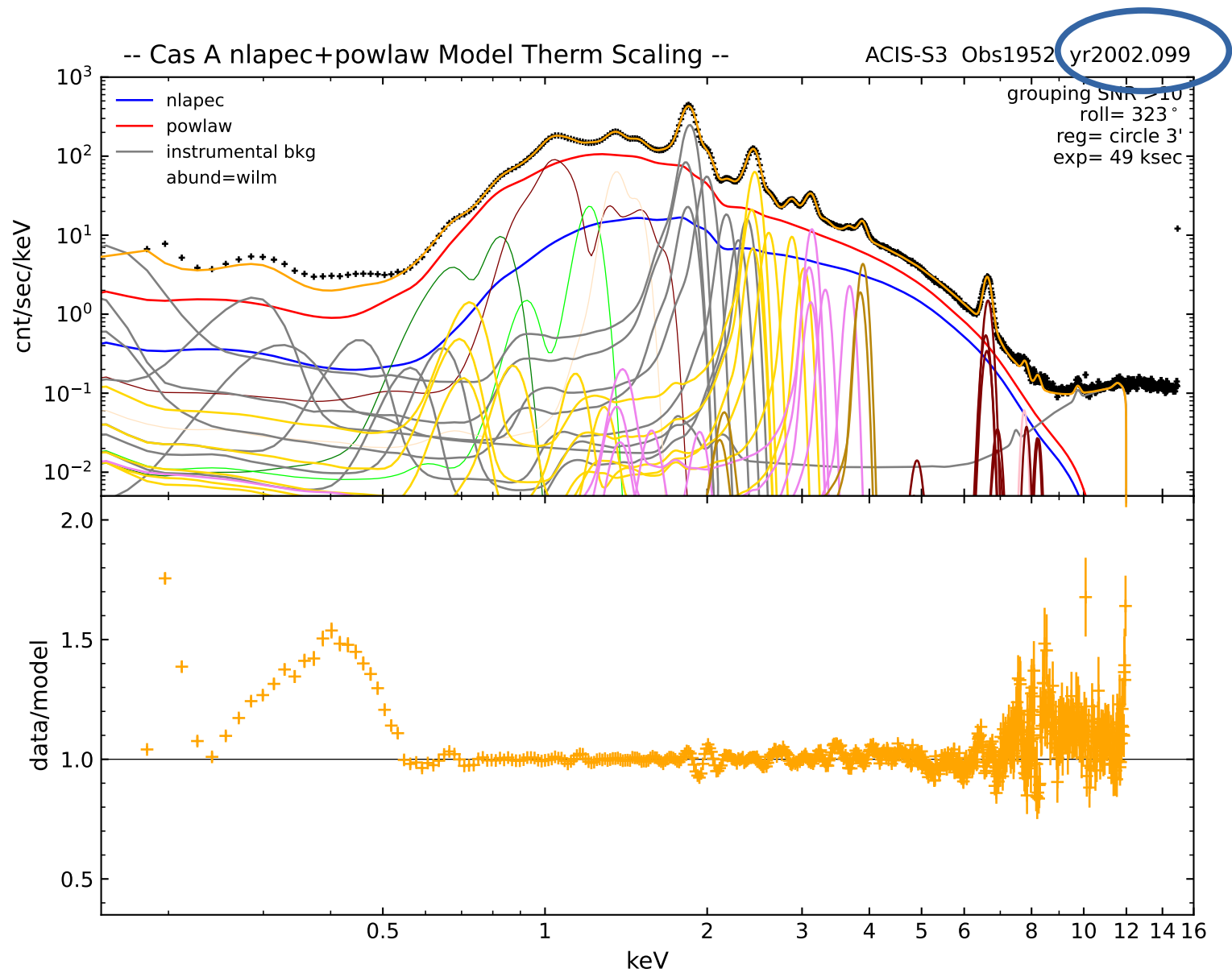
Triplet intensity ratios from ATOMDB @

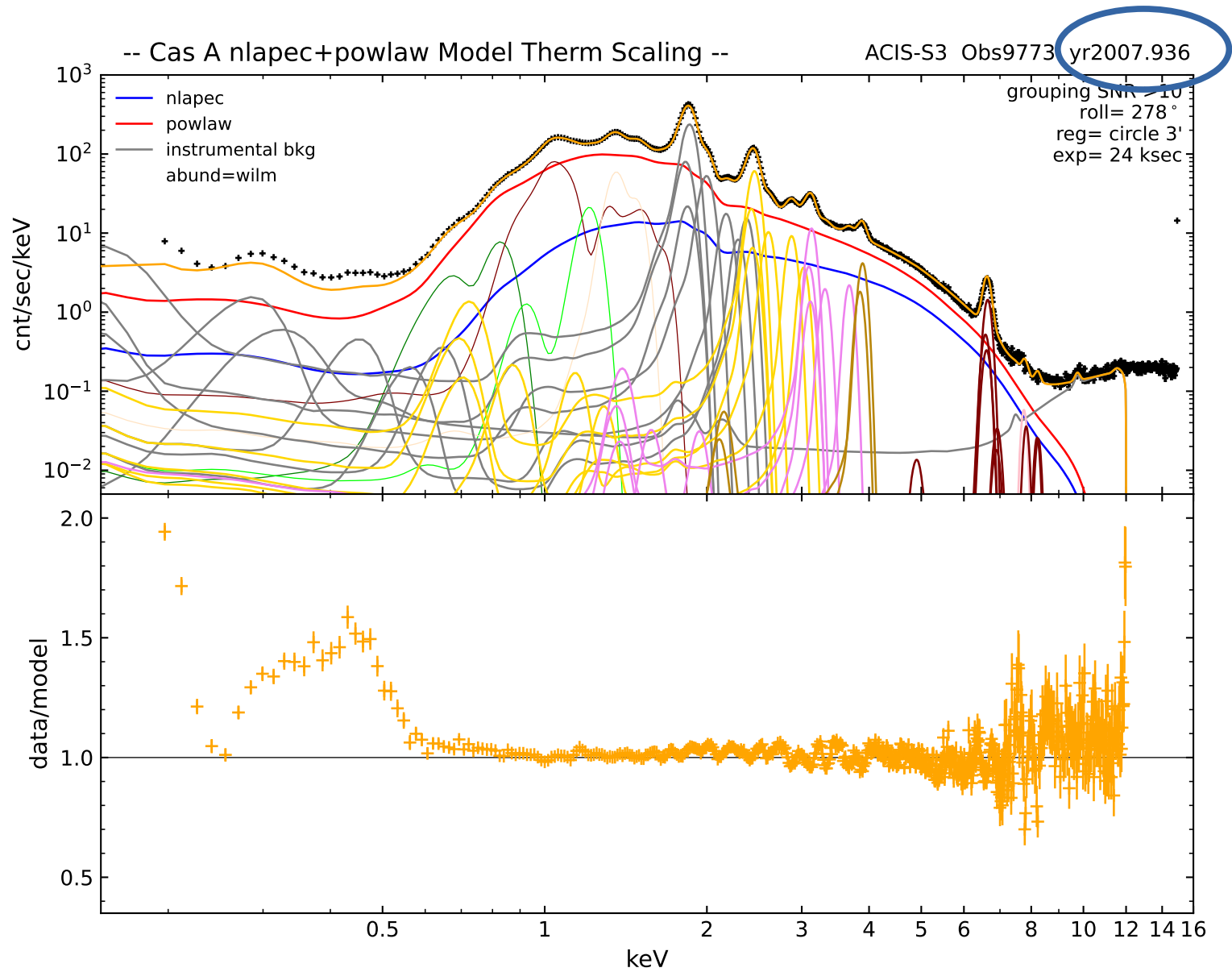
3.8 kT for prominent lines:

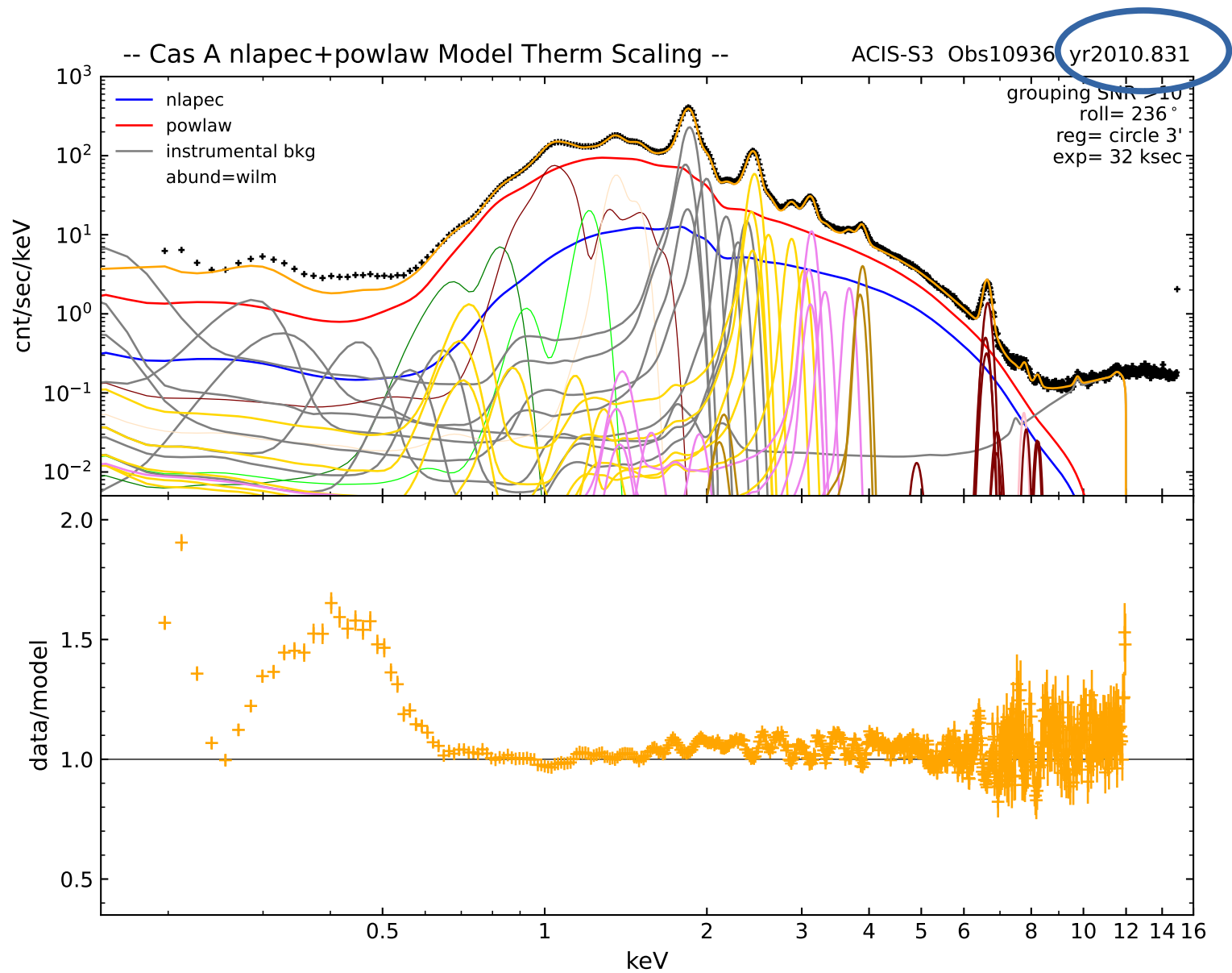
He α - Si, S, Ar, Ca, Fe

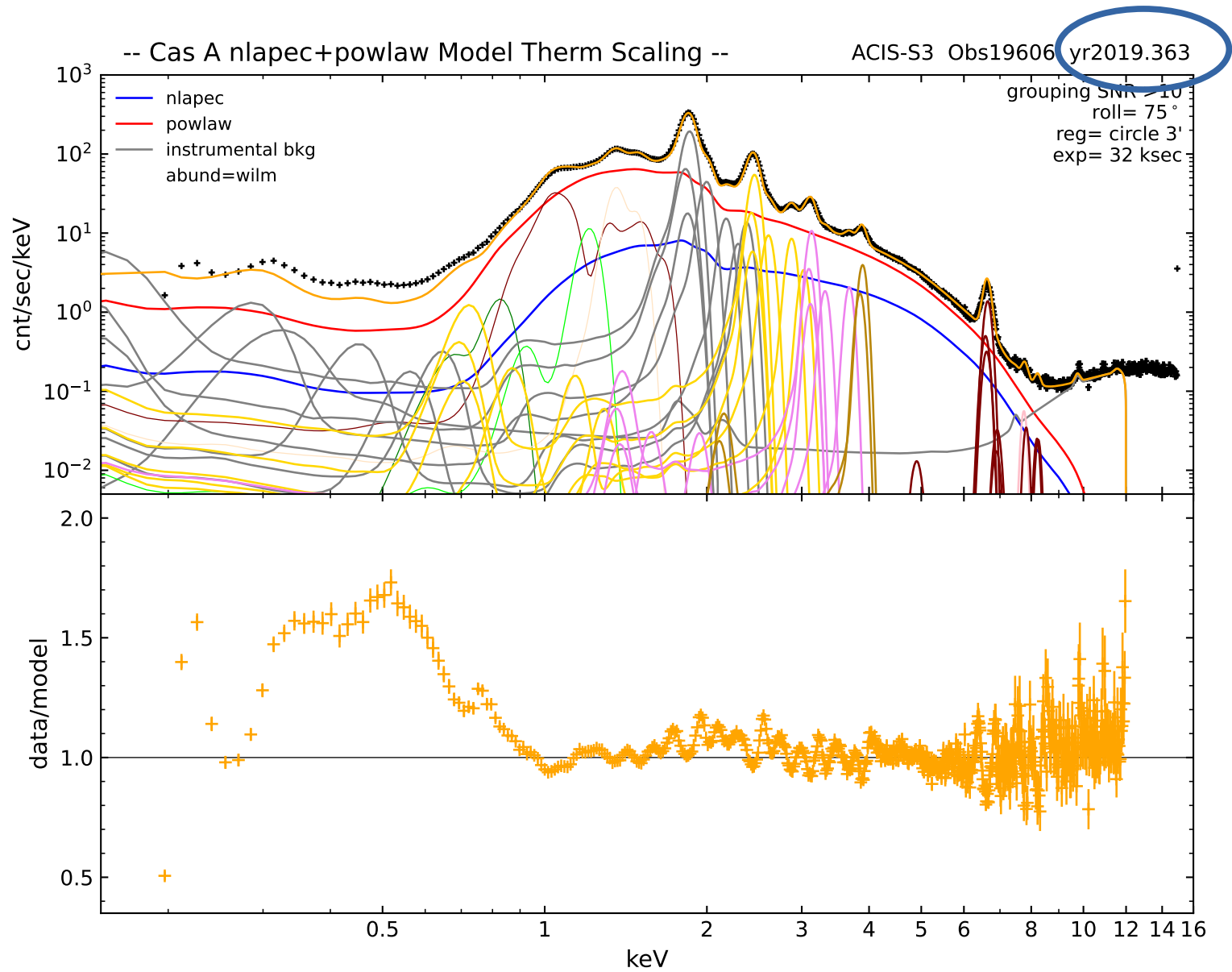
| component | RestE | LineE | Sigma | norm |
|-------------------------|-------|-------|-------|----------|
| tbabs_nH | 0.0 | 1.270 | 0.0 | 0.00e+00 |
| nlapex_kT_norm_scaled* | 0.0 | 3.800 | 0.0 | 4.19e-01 |
| powlaw_PhIndx_norm | 0.0 | 3.100 | 0.0 | 1.15e+00 |
| O_VII_L7>1 | 0.574 | 0.581 | 0.001 | 4.45e-01 |
| O_VIII_L4>1_blend | 0.654 | 0.661 | 0.001 | 2.71e-01 |
| O_VIII_L12>1 | 0.817 | 0.824 | 0.001 | 6.19e-02 |
| Fe_XXI_L28>7 | 0.885 | 0.890 | 0.001 | 4.61e-02 |
| Ne_IX_L7>1 | 0.922 | 0.922 | 0.001 | 5.00e-03 |
| Fe_XXII_L17>6 | 0.937 | 0.942 | 0.001 | 3.69e-02 |
| Fe_XXI_L40>1 | 1.009 | 1.014 | 0.001 | 3.40e-02 |
| Fe_XXIII_L12>5 | 1.020 | 1.025 | 0.001 | 6.14e-02 |
| Fe_XXIII_L20>5 | 1.056 | 1.061 | 0.001 | 3.77e-02 |
| Fe_XXIV_L8>3 | 1.109 | 1.114 | 0.001 | 4.25e-02 |
| Ne_X_L7>1 | 1.211 | 1.211 | 0.001 | 1.64e-02 |
| Fe_XXI_L248>3 | 1.314 | 1.319 | 0.001 | 1.18e-02 |
| Mg_XI_L7>1 | 1.352 | 1.360 | 0.001 | 3.18e-02 |
| Fe_XXIII_L56>5 | 1.407 | 1.412 | 0.001 | 5.32e-03 |
| Mg_Lya_XXII_L3>1_bln | 1.473 | 1.481 | 0.001 | 1.11e-02 |
| Fe_XXIII_L52>1 | 1.493 | 1.498 | 0.001 | 5.30e-03 |
| Fe_XXIV_L11>1 | 1.553 | 1.558 | 0.001 | 4.34e-03 |
| Fe_XXXIII_L104>1 | 1.658 | 1.663 | 0.001 | 2.13e-03 |
| Si_Hea_XIII_L2>1_forbid | 1.839 | 1.845 | 0.001 | 3.49e-02 |
| Si_Hea_XIII_L5>1_interc | 1.854 | 1.860 | 0.001 | 9.44e-03 |
| Si_Hea_XIII_L7>1_reso | 1.865 | 1.871 | 0.001 | 9.86e-02 |
| Si_Lya_XIV_L3>1_blend | 2.005 | 2.011 | 0.001 | 2.09e-02 |
| Si_Heb_XIII_L13>1 | 2.183 | 2.189 | 0.001 | 1.21e-02 |
| Si_XIII_L23>1 | 2.294 | 2.300 | 0.001 | 4.76e-03 |
| Si_Lya_XIV_L7>1 | 2.377 | 2.383 | 0.001 | 8.21e-03 |
| S_Hea_XV_L2>1_forbid | 2.430 | 2.431 | 0.001 | 1.06e-02 |
| S_Hea_XV_L5>1_interc | 2.447 | 2.448 | 0.001 | 3.39e-03 |
| S_Hea_XV_L7>1_reso | 2.461 | 2.462 | 0.001 | 3.15e-02 |
| S_Lya_XVI_L4>1 | 2.623 | 2.618 | 0.001 | 5.45e-03 |
| S_Heb_XV_L13>1 | 2.884 | 2.884 | 0.001 | 4.49e-03 |
| S_XV_L23>1 | 3.033 | 3.033 | 0.001 | 1.75e-03 |
| Ar_Hea_XVII_L2>1_forbid | 3.104 | 3.104 | 0.001 | 1.79e-03 |
| Ar_Hea_XVII_L5>1_interc | 3.124 | 3.124 | 0.001 | 6.45e-04 |
| Ar_Hea_XVII_L7>1_reso | 3.140 | 3.140 | 0.001 | 5.43e-03 |
| Ar_Lya_XVIII_L4>1 | 3.323 | 3.323 | 0.001 | 9.20e-04 |
| Ar_Heb_XVII_L13>1 | 3.685 | 3.685 | 0.001 | 1.01e-03 |
| Ca_Hea_XIX_L2>1_forbid | 3.861 | 3.859 | 0.001 | 8.43e-04 |
| Ca_Hea_XIX_L7>1_reso | 3.902 | 3.900 | 0.001 | 1.94e-03 |
| Cr-Ka_XXIII_L2>1 | 5.627 | 5.627 | 0.001 | 1.86e-07 |
| Cr-Ka_XXIII_L7>1 | 5.682 | 5.682 | 0.001 | 5.58e-07 |
| Fe-Hea_XXV_L2>1_forbid | 6.637 | 6.585 | 0.070 | 1.10e-03 |
| Fe-Hea_XXV_L5>1_interc | 6.668 | 6.616 | 0.070 | 7.15e-04 |
| Fe-Hea_XXV_L7>1_reso | 6.700 | 6.648 | 0.070 | 3.19e-03 |
| Fe-Lya_XXVI_L3>1 | 6.952 | 6.900 | 0.070 | 5.00e-05 |
| Fe-Lya_XXVI_L4>1 | 6.973 | 6.921 | 0.070 | 9.50e-05 |
| Ni-Ka_XXVII_L7>1 | 7.806 | 7.754 | 0.030 | 3.00e-04 |
| Fe_XXV_L11>1 | 7.882 | 7.830 | 0.030 | 2.00e-04 |
| Fe_XXVI_L7>1 | 8.253 | 8.201 | 0.030 | 2.00e-04 |
| Fe_XXV_L32>1 | 8.295 | 8.243 | 0.030 | 2.00e-04 |



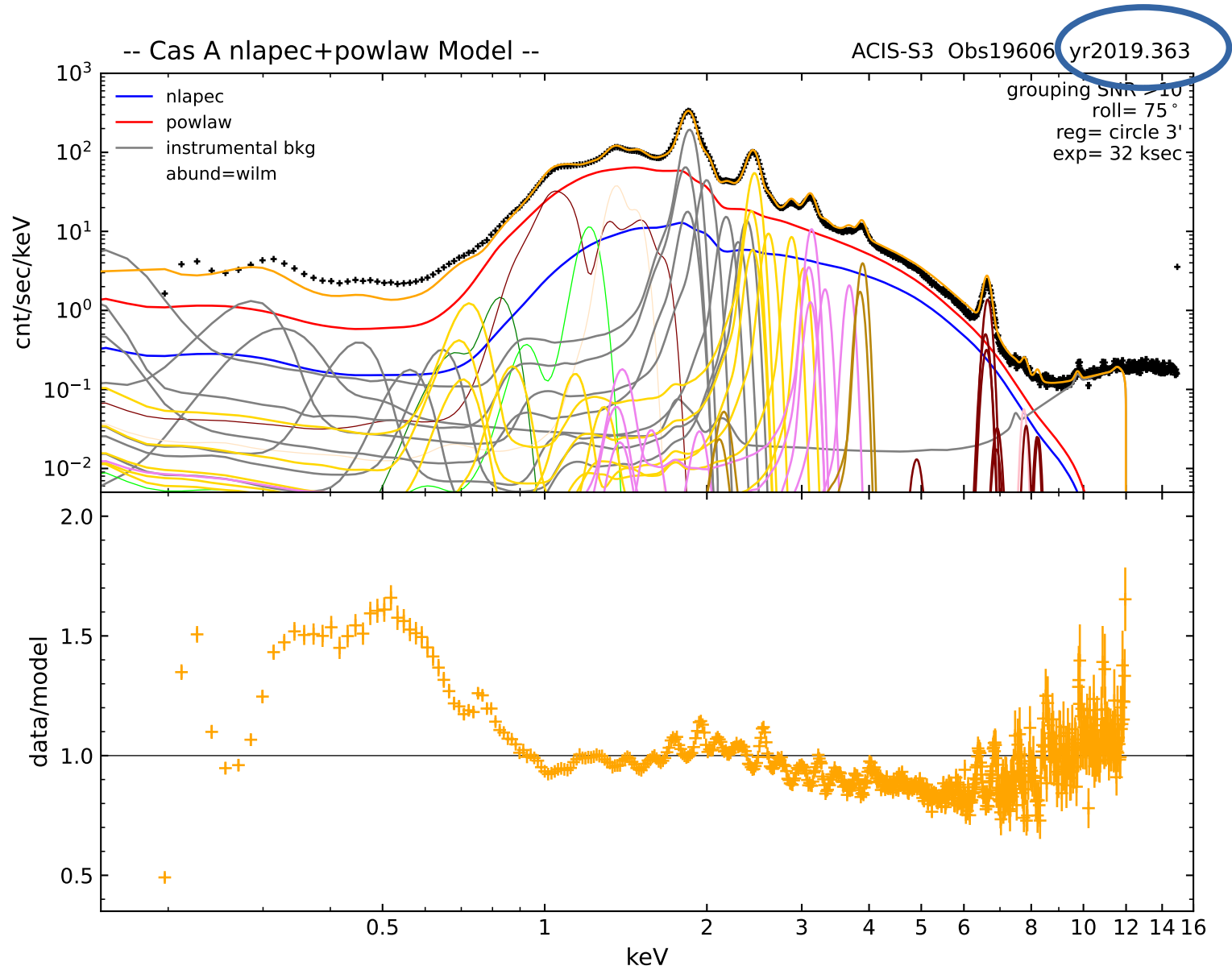








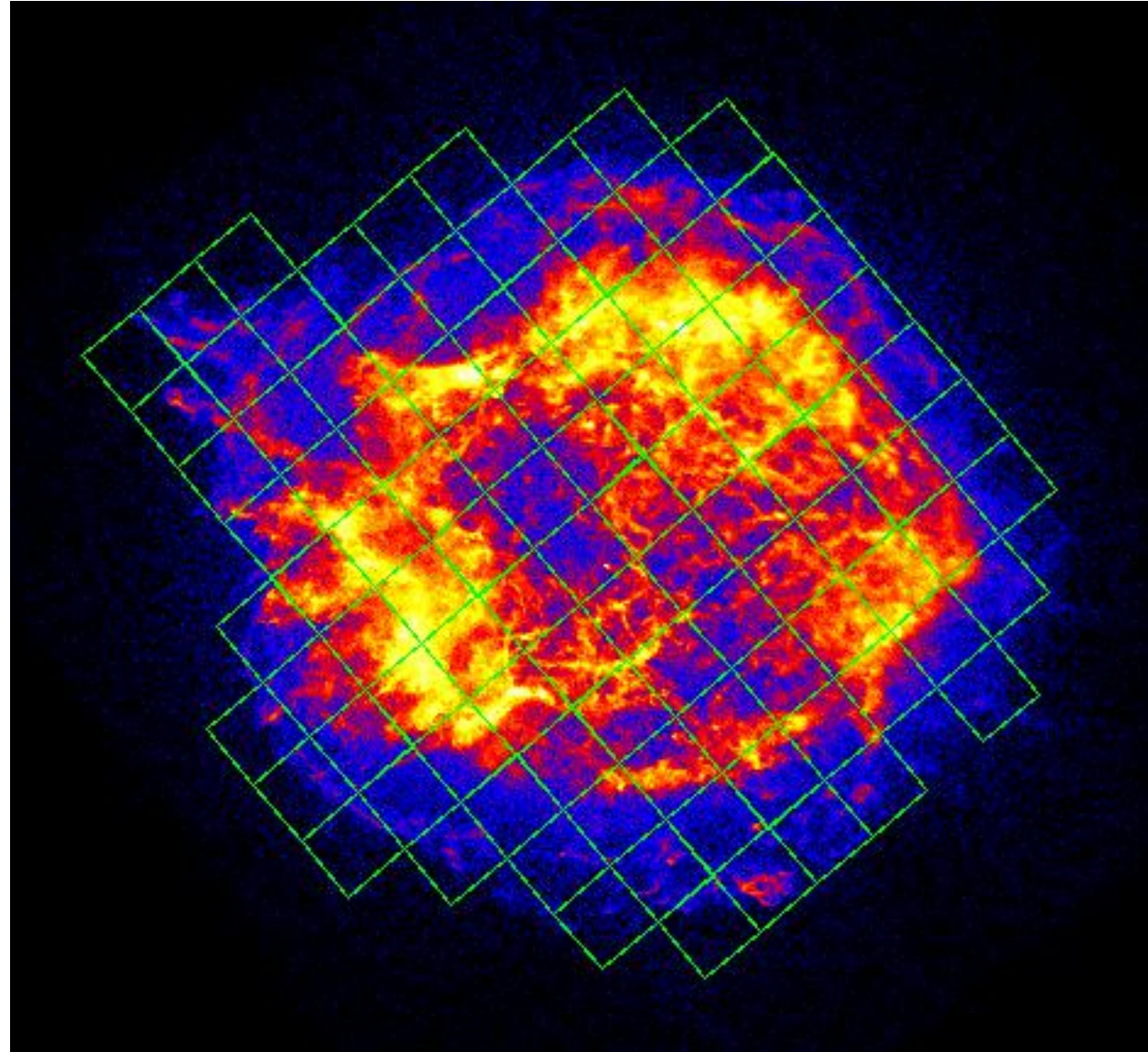
No Thermal Scaling
Thermal norm = yr2000



ACIS Cas A “Little” Model(s) ~ 1.5-2.3keV

64x64 pixels (~32x32 arcsec) x101 regions
tbabs * (powlaw + 5 gaussians)

Unique model pars per region



ACIS Cas A “Little” Model(s) ~ 1.5-2.3keV

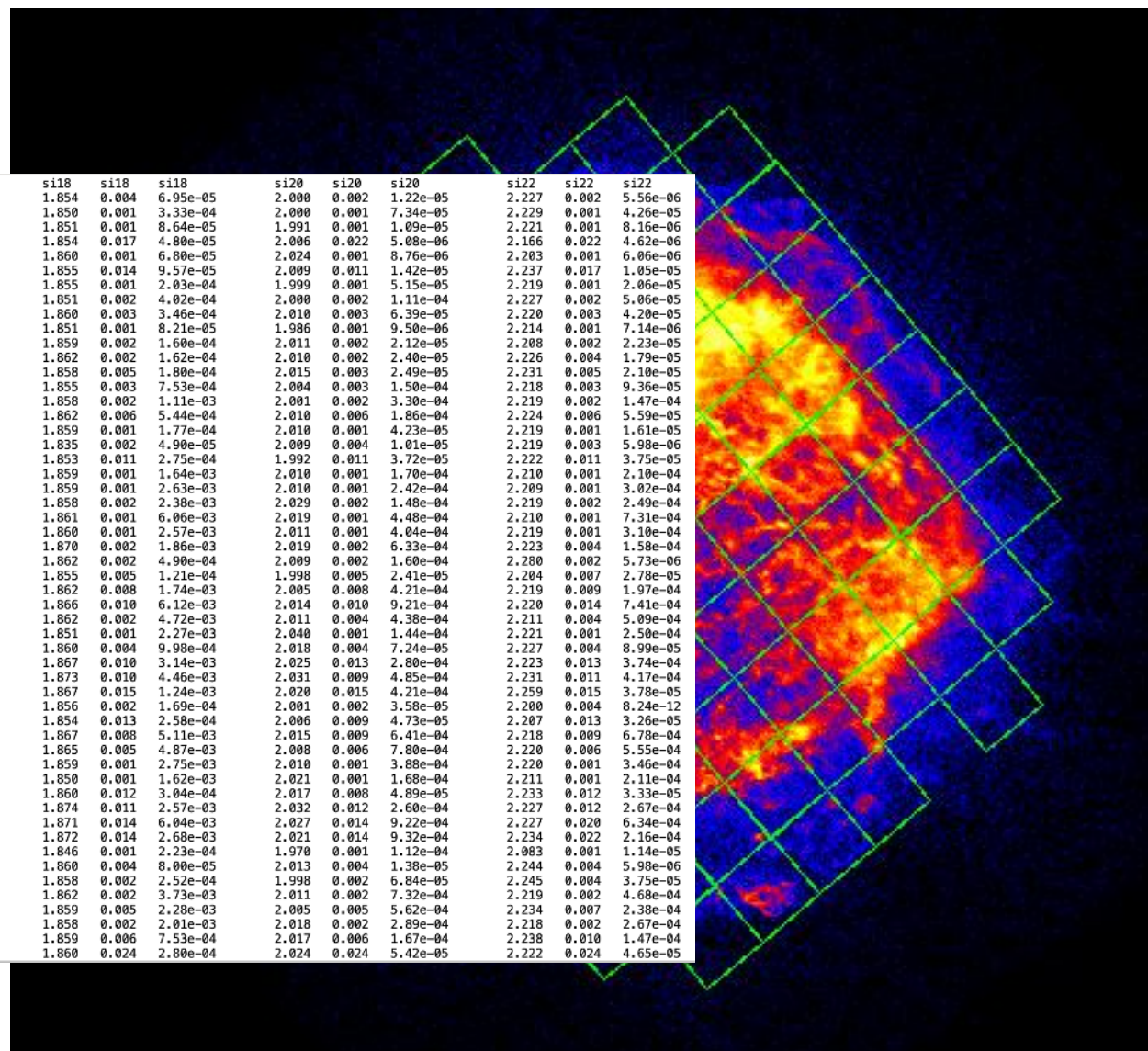
64x64 pixels (~32x32 arcsec) x101 regions

tbabs * (powlaw + 5 gaussians)

Preliminary Component Values:

| #reg | nH | kT | nrm | fe166 | fe166 | fe166 | mg175 | mg175 | mg175 | si18 | si18 | si18 | si20 | si20 | si20 | si22 | si22 | si22 |
|------|------|------|----------|-------|-------|----------|-------|-------|----------|-------|-------|----------|-------|-------|----------|-------|-------|----------|
| 1 | 1.00 | 3.53 | 1.04e-03 | 1.630 | 0.010 | 1.88e-06 | 1.746 | 0.007 | 3.20e-10 | 1.854 | 0.004 | 6.95e-05 | 2.000 | 0.002 | 1.22e-05 | 2.227 | 0.002 | 5.56e-06 |
| 2 | 1.00 | 3.23 | 1.76e-03 | 1.573 | 0.001 | 1.11e-05 | 1.725 | 0.001 | 2.29e-06 | 1.850 | 0.001 | 3.33e-04 | 2.000 | 0.001 | 7.34e-05 | 2.229 | 0.001 | 4.26e-05 |
| 3 | 1.00 | 3.68 | 7.63e-04 | 1.612 | 0.046 | 1.09e-10 | 1.651 | 0.003 | 8.91e-07 | 1.851 | 0.001 | 8.64e-05 | 1.991 | 0.001 | 1.09e-05 | 2.221 | 0.001 | 8.16e-06 |
| 4 | 1.00 | 2.87 | 1.34e-03 | 1.598 | 0.001 | 1.08e-10 | 1.743 | 0.001 | 1.63e-10 | 1.854 | 0.017 | 4.80e-05 | 2.006 | 0.022 | 5.08e-06 | 2.166 | 0.022 | 4.62e-06 |
| 5 | 1.00 | 2.58 | 1.17e-03 | 1.610 | 0.001 | 1.34e-06 | 1.778 | 0.001 | 4.03e-06 | 1.860 | 0.001 | 6.80e-05 | 2.024 | 0.001 | 8.76e-06 | 2.203 | 0.001 | 6.06e-06 |
| 6 | 1.00 | 2.43 | 1.87e-03 | 1.677 | 0.049 | 9.25e-11 | 1.774 | 0.002 | 1.13e-06 | 1.855 | 0.014 | 9.57e-05 | 2.009 | 0.011 | 1.42e-05 | 2.237 | 0.017 | 1.05e-05 |
| 7 | 1.00 | 2.59 | 2.81e-03 | 1.578 | 0.001 | 3.71e-06 | 1.723 | 0.002 | 5.32e-06 | 1.855 | 0.001 | 2.03e-04 | 1.999 | 0.001 | 5.15e-05 | 2.219 | 0.001 | 2.06e-05 |
| 8 | 1.00 | 2.70 | 2.92e-03 | 1.558 | 0.001 | 5.00e-06 | 1.603 | 0.058 | 3.66e-06 | 1.851 | 0.002 | 4.02e-04 | 2.000 | 0.002 | 1.11e-04 | 2.227 | 0.002 | 5.06e-05 |
| 9 | 1.00 | 2.84 | 1.61e-03 | 1.573 | 0.001 | 4.60e-06 | 1.713 | 0.001 | 1.80e-06 | 1.860 | 0.003 | 3.46e-04 | 2.010 | 0.003 | 6.39e-05 | 2.220 | 0.003 | 4.20e-05 |
| 10 | 1.00 | 3.02 | 1.92e-03 | 1.698 | 0.029 | 1.39e-09 | 1.725 | 0.001 | 1.74e-06 | 1.851 | 0.001 | 8.21e-05 | 1.986 | 0.001 | 9.50e-06 | 2.214 | 0.001 | 7.14e-06 |
| 11 | 1.00 | 2.65 | 4.04e-03 | 1.591 | 0.017 | 1.92e-08 | 1.710 | 0.001 | 5.26e-06 | 1.859 | 0.002 | 1.60e-04 | 2.011 | 0.002 | 2.12e-05 | 2.208 | 0.002 | 2.23e-05 |
| 12 | 1.00 | 2.85 | 3.54e-03 | 1.572 | 0.001 | 8.18e-06 | 1.715 | 0.003 | 4.62e-06 | 1.862 | 0.002 | 1.62e-04 | 2.010 | 0.002 | 2.40e-05 | 2.226 | 0.004 | 1.79e-05 |
| 13 | 1.00 | 2.66 | 3.70e-03 | 1.576 | 0.001 | 1.15e-05 | 1.741 | 0.002 | 7.78e-06 | 1.858 | 0.005 | 1.80e-04 | 2.015 | 0.003 | 2.49e-05 | 2.231 | 0.005 | 2.10e-05 |
| 14 | 1.00 | 2.63 | 5.90e-03 | 1.572 | 0.001 | 8.66e-06 | 1.719 | 0.005 | 1.68e-06 | 1.855 | 0.003 | 7.53e-04 | 2.004 | 0.003 | 1.50e-04 | 2.218 | 0.003 | 9.36e-05 |
| 15 | 1.00 | 2.47 | 4.95e-03 | 1.567 | 0.001 | 1.20e-05 | 1.710 | 0.002 | 6.00e-06 | 1.858 | 0.002 | 1.11e-03 | 2.001 | 0.002 | 3.30e-04 | 2.219 | 0.002 | 1.47e-04 |
| 16 | 1.00 | 2.94 | 4.98e-03 | 1.573 | 0.001 | 2.25e-06 | 1.725 | 0.022 | 2.40e-07 | 1.862 | 0.006 | 5.44e-04 | 2.010 | 0.006 | 1.86e-04 | 2.224 | 0.006 | 5.59e-05 |
| 17 | 1.00 | 3.02 | 4.16e-03 | 1.558 | 0.001 | 1.00e-05 | 1.653 | 0.040 | 3.85e-06 | 1.859 | 0.001 | 1.77e-04 | 2.010 | 0.001 | 4.23e-05 | 2.219 | 0.001 | 1.61e-05 |
| 18 | 1.00 | 3.22 | 9.93e-04 | 1.657 | 0.001 | 7.83e-07 | 1.674 | 0.023 | 2.64e-06 | 1.835 | 0.002 | 4.90e-05 | 2.009 | 0.004 | 1.01e-05 | 2.219 | 0.003 | 5.98e-06 |
| 19 | 1.00 | 2.88 | 6.64e-03 | 1.693 | 0.002 | 2.50e-06 | 1.688 | 0.002 | 2.15e-06 | 1.853 | 0.011 | 2.75e-04 | 1.992 | 0.011 | 3.72e-05 | 2.222 | 0.011 | 3.75e-05 |
| 20 | 1.00 | 2.98 | 7.85e-03 | 1.583 | 0.001 | 1.00e-05 | 1.637 | 0.040 | 2.22e-07 | 1.859 | 0.001 | 1.64e-03 | 2.010 | 0.001 | 1.70e-04 | 2.210 | 0.001 | 2.10e-04 |
| 21 | 1.00 | 3.20 | 1.94e-02 | 1.584 | 0.001 | 1.00e-05 | 1.619 | 0.006 | 1.00e-05 | 1.859 | 0.001 | 2.63e-03 | 2.010 | 0.001 | 2.42e-04 | 2.209 | 0.001 | 3.02e-04 |
| 22 | 1.00 | 3.28 | 2.04e-02 | 1.576 | 0.001 | 1.20e-05 | 1.725 | 0.016 | 3.82e-10 | 1.858 | 0.002 | 2.38e-03 | 2.029 | 0.002 | 1.48e-04 | 2.219 | 0.002 | 2.49e-04 |
| 23 | 1.00 | 2.92 | 2.49e-02 | 1.558 | 0.002 | 4.45e-06 | 1.600 | 0.003 | 1.00e-05 | 1.861 | 0.001 | 6.00e-03 | 2.019 | 0.001 | 4.48e-04 | 2.210 | 0.001 | 7.31e-04 |
| 24 | 1.00 | 2.85 | 1.03e-02 | 1.568 | 0.001 | 4.00e-06 | 1.645 | 0.026 | 8.00e-06 | 1.860 | 0.001 | 2.57e-03 | 2.011 | 0.001 | 4.04e-04 | 2.219 | 0.001 | 3.10e-04 |
| 25 | 1.00 | 3.25 | 1.96e-02 | 1.596 | 0.001 | 1.20e-05 | 1.686 | 0.001 | 1.00e-05 | 1.870 | 0.002 | 1.86e-03 | 2.019 | 0.002 | 6.33e-04 | 2.223 | 0.004 | 1.58e-04 |
| 26 | 1.00 | 3.45 | 1.57e-02 | 1.589 | 0.002 | 1.20e-05 | 1.654 | 0.007 | 1.00e-05 | 1.862 | 0.002 | 4.90e-04 | 2.009 | 0.002 | 1.60e-04 | 2.280 | 0.002 | 5.73e-06 |
| 27 | 1.00 | 2.51 | 3.46e-03 | 1.563 | 0.006 | 4.14e-06 | 1.718 | 0.037 | 1.00e-05 | 1.855 | 0.005 | 1.21e-04 | 1.998 | 0.005 | 2.41e-05 | 2.204 | 0.007 | 2.78e-05 |
| 28 | 1.00 | 2.86 | 1.22e-02 | 1.578 | 0.002 | 1.20e-05 | 1.710 | 0.003 | 4.98e-06 | 1.862 | 0.008 | 1.74e-03 | 2.005 | 0.008 | 4.21e-04 | 2.219 | 0.009 | 1.97e-04 |
| 29 | 1.00 | 2.93 | 3.22e-02 | 1.579 | 0.006 | 9.99e-06 | 1.626 | 0.059 | 2.76e-08 | 1.866 | 0.010 | 6.12e-03 | 2.014 | 0.010 | 9.21e-04 | 2.220 | 0.014 | 7.41e-04 |
| 30 | 1.00 | 3.08 | 3.43e-02 | 1.561 | 0.005 | 1.16e-05 | 1.786 | 0.005 | 1.09e-07 | 1.862 | 0.002 | 4.72e-03 | 2.011 | 0.004 | 4.38e-04 | 2.211 | 0.004 | 5.09e-04 |
| 31 | 1.00 | 2.90 | 1.37e-02 | 1.577 | 0.002 | 9.72e-06 | 1.599 | 0.018 | 6.00e-06 | 1.851 | 0.001 | 2.27e-03 | 2.040 | 0.001 | 1.44e-04 | 2.221 | 0.001 | 2.50e-04 |
| 32 | 1.00 | 3.08 | 1.15e-02 | 1.568 | 0.001 | 9.43e-06 | 1.706 | 0.037 | 1.02e-06 | 1.860 | 0.004 | 9.98e-04 | 2.018 | 0.004 | 7.24e-05 | 2.227 | 0.004 | 8.99e-05 |
| 33 | 1.00 | 3.10 | 1.79e-02 | 1.567 | 0.001 | 8.00e-06 | 1.745 | 0.002 | 1.00e-05 | 1.867 | 0.010 | 3.14e-03 | 2.025 | 0.013 | 2.80e-04 | 2.223 | 0.013 | 3.74e-04 |
| 34 | 1.00 | 3.22 | 3.63e-02 | 1.616 | 0.006 | 1.67e-05 | 1.670 | 0.023 | 9.30e-06 | 1.873 | 0.010 | 4.46e-03 | 2.031 | 0.009 | 4.85e-04 | 2.231 | 0.011 | 4.17e-04 |
| 35 | 1.00 | 3.18 | 2.68e-02 | 1.628 | 0.008 | 1.03e-05 | 1.660 | 0.018 | 1.02e-05 | 1.867 | 0.015 | 1.24e-03 | 2.020 | 0.015 | 4.21e-04 | 2.259 | 0.015 | 3.78e-05 |
| 36 | 1.00 | 2.80 | 5.06e-03 | 1.595 | 0.001 | 1.00e-05 | 1.666 | 0.028 | 1.00e-05 | 1.856 | 0.002 | 1.69e-04 | 2.001 | 0.002 | 3.58e-05 | 2.200 | 0.004 | 8.24e-12 |
| 37 | 1.00 | 2.49 | 4.65e-03 | 1.683 | 0.059 | 1.05e-10 | 1.695 | 0.001 | 8.24e-07 | 1.854 | 0.013 | 2.58e-04 | 2.006 | 0.009 | 4.73e-05 | 2.207 | 0.013 | 3.26e-05 |
| 38 | 1.00 | 2.93 | 3.10e-02 | 1.578 | 0.001 | 1.00e-05 | 1.638 | 0.042 | 3.77e-10 | 1.867 | 0.008 | 5.11e-03 | 2.015 | 0.009 | 6.41e-04 | 2.218 | 0.009 | 6.78e-04 |
| 39 | 1.00 | 3.05 | 3.97e-02 | 1.581 | 0.001 | 1.00e-05 | 1.749 | 0.056 | 3.11e-08 | 1.865 | 0.005 | 4.87e-03 | 2.008 | 0.006 | 7.80e-04 | 2.220 | 0.006 | 5.55e-04 |
| 40 | 1.00 | 2.91 | 2.01e-02 | 1.585 | 0.003 | 1.20e-05 | 1.586 | 0.006 | 1.00e-05 | 1.859 | 0.001 | 2.75e-03 | 2.010 | 0.001 | 3.88e-04 | 2.220 | 0.001 | 3.46e-04 |
| 41 | 1.00 | 2.82 | 9.64e-03 | 1.582 | 0.008 | 1.20e-05 | 1.606 | 0.016 | 2.01e-07 | 1.850 | 0.001 | 1.62e-03 | 2.021 | 0.001 | 1.68e-04 | 2.211 | 0.001 | 2.11e-04 |
| 42 | 1.00 | 2.49 | 4.67e-03 | 1.558 | 0.001 | 5.87e-06 | 1.738 | 0.031 | 2.62e-06 | 1.860 | 0.012 | 3.04e-04 | 2.017 | 0.008 | 4.89e-05 | 2.233 | 0.012 | 3.33e-05 |
| 43 | 1.00 | 3.09 | 2.15e-02 | 1.579 | 0.001 | 9.80e-06 | 1.674 | 0.020 | 1.04e-10 | 1.874 | 0.011 | 2.57e-03 | 2.032 | 0.012 | 2.60e-04 | 2.227 | 0.012 | 2.67e-04 |
| 44 | 1.00 | 3.09 | 4.23e-02 | 1.607 | 0.007 | 1.19e-05 | 1.637 | 0.021 | 1.11e-05 | 1.871 | 0.014 | 6.04e-03 | 2.027 | 0.014 | 9.22e-04 | 2.227 | 0.020 | 6.34e-04 |
| 45 | 1.00 | 3.17 | 3.29e-02 | 1.595 | 0.002 | 1.20e-05 | 1.662 | 0.003 | 1.00e-05 | 1.872 | 0.014 | 2.68e-03 | 2.021 | 0.014 | 9.32e-04 | 2.234 | 0.022 | 2.16e-04 |
| 46 | 1.00 | 3.01 | 7.15e-03 | 1.628 | 0.001 | 1.00e-05 | 1.656 | 0.004 | 1.20e-05 | 1.846 | 0.001 | 2.23e-04 | 1.970 | 0.001 | 1.12e-04 | 2.083 | 0.001 | 1.14e-05 |
| 47 | 1.00 | 2.84 | 1.69e-03 | 1.572 | 0.007 | 1.20e-05 | 1.728 | 0.006 | 8.15e-06 | 1.860 | 0.004 | 8.00e-05 | 2.013 | 0.004 | 1.38e-05 | 2.244 | 0.004 | 5.98e-06 |
| 48 | 1.00 | 2.54 | 4.77e-03 | 1.598 | 0.001 | 7.21e-06 | 1.716 | 0.002 | 4.00e-06 | 1.858 | 0.002 | 2.52e-04 | 1.998 | 0.002 | 6.84e-05 | 2.245 | 0.004 | 3.75e-05 |
| 49 | 1.00 | 2.76 | 2.28e-02 | 1.590 | 0.020 | 1.20e-05 | 1.635 | 0.001 | 1.20e-05 | 1.862 | 0.002 | 3.73e-03 | 2.011 | 0.002 | 7.32e-04 | 2.219 | 0.002 | 4.68e-04 |
| 50 | 1.00 | 2.73 | 2.37e-02 | 1.597 | 0.001 | 1.20e-05 | 1.604 | 0.010 | 1.20e-05 | 1.859 | 0.005 | 2.28e-03 | 2.005 | 0.005 | 5.62e-04 | 2.234 | 0.007 | 2.38e-04 |
| 51 | 1.00 | 2.72 | 1.84e-02 | 1.584 | 0.006 | 9.72e-06 | 1.615 | 0.017 | 5.00e-06 | 1.858 | 0.002 | 2.01e-03 | 2.018 | 0.002 | 2.89e-04 | 2.218 | 0.002 | 2.67e-04 |
| 52 | 1.00 | 2.78 | 1.85e-02 | 1.578 | 0.001 | 3.33e-07 | 1.716 | 0.002 | 1.00e-05 | 1.859 | 0.006 | 7.53e-04 | 2.017 | 0.006 | 1.67e-04 | 2.238 | 0.010 | 1.47e-04 |
| 53 | 1.00 | 2.50 | 7.27e-03 | 1.598 | 0.003 | 1.43e-08 | 1.740 | 0.035 | 7.80e-06 | 1.860 | 0.024 | 2.80e-04 | 2.024 | 0.024 | 5.42e-05 | 2.222 | 0.024 | 4.65e-05 |

... 101

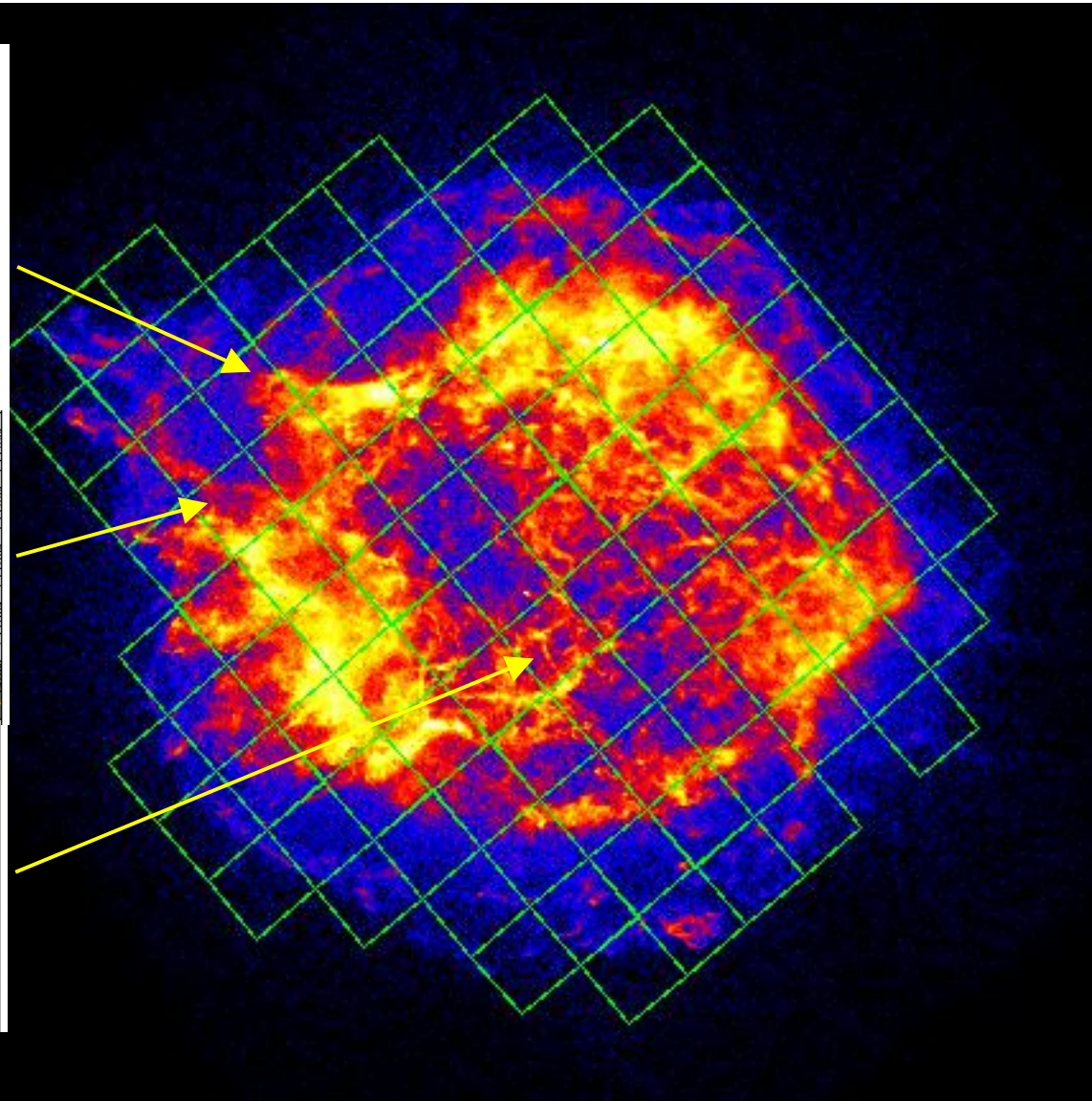
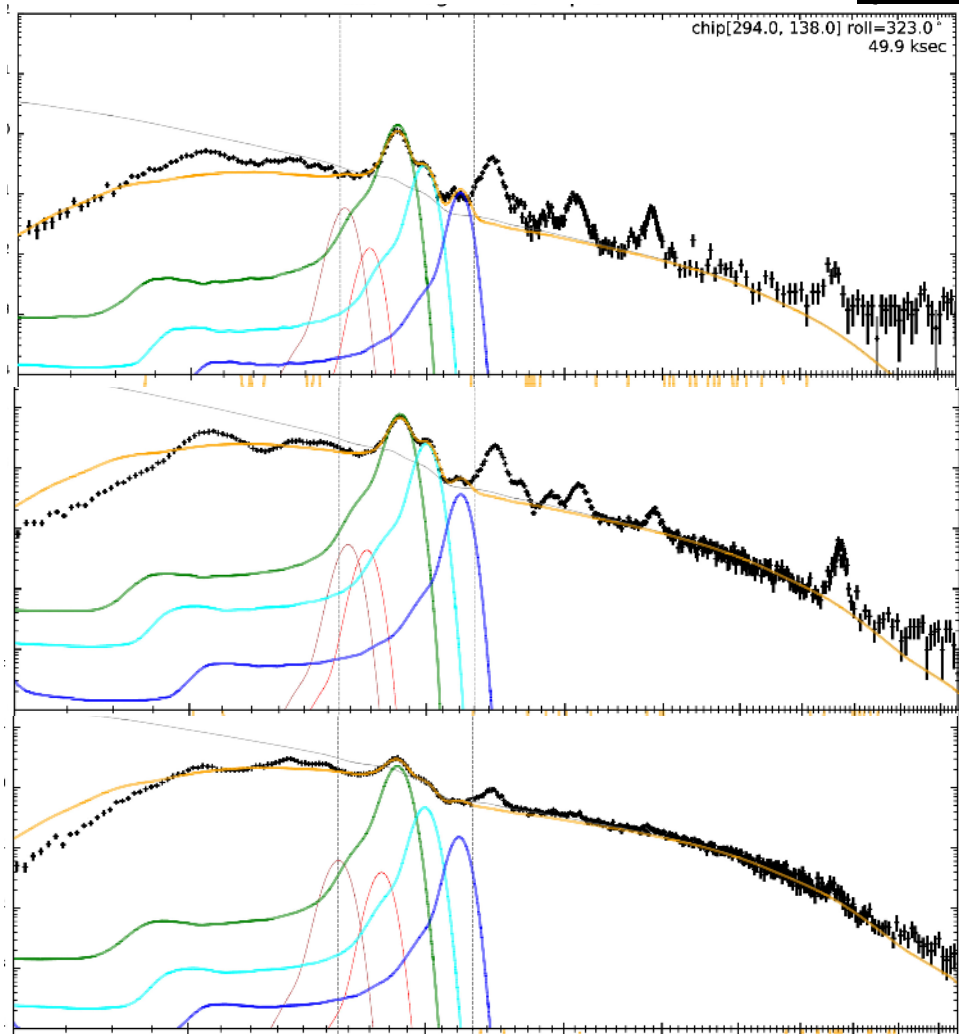


ACIS Cas A “Little” Model(s) ~ 1.5-2.3keV

64x64 pixels (~32x32 arcsec) x101 regions

tbabs * (powlaw + 5 gaussians)

Preliminary

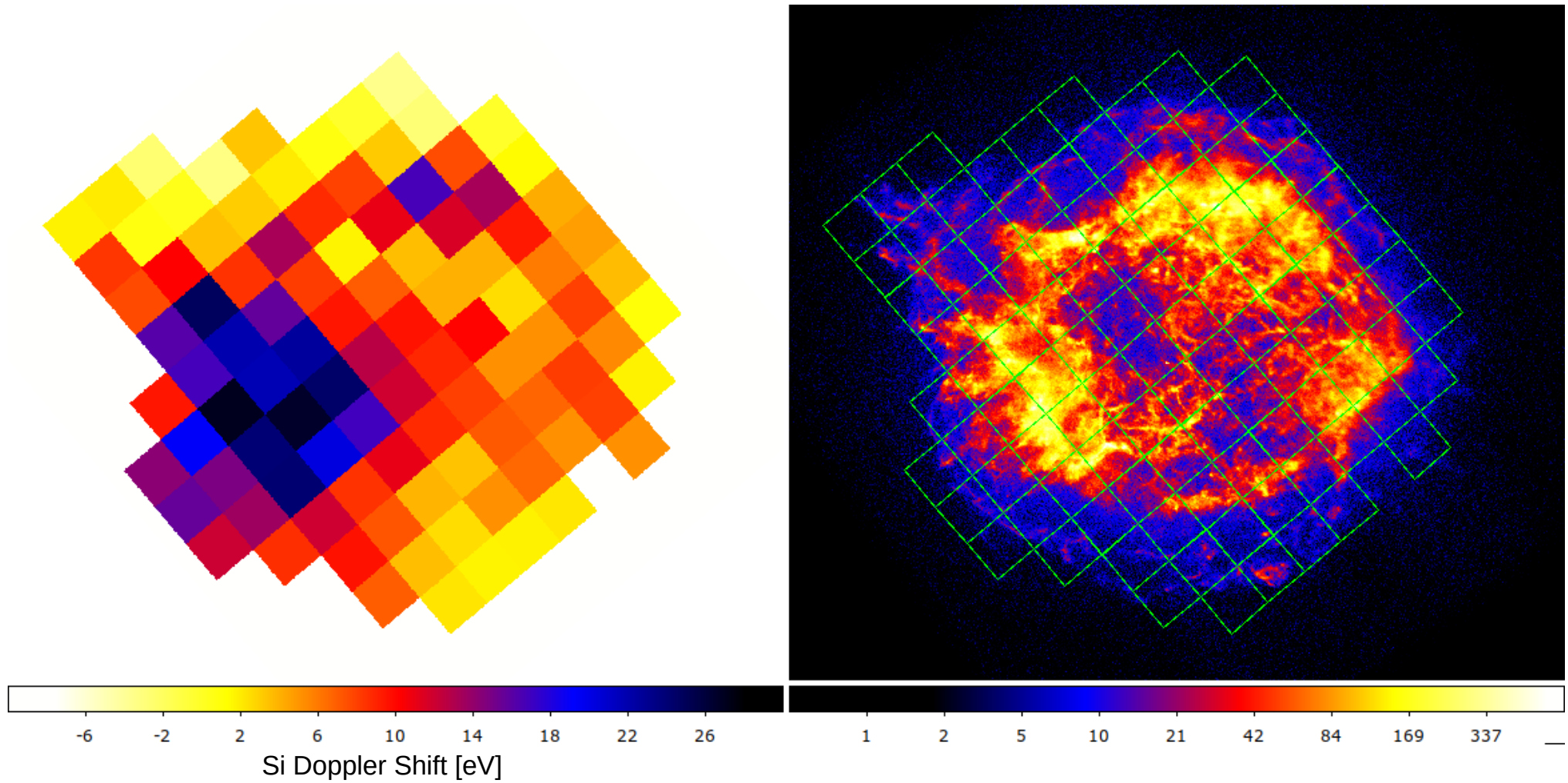


ACIS Cas A “Little” Model(s) ~ 1.5-2.3keV

64x64 pixels (~32x32 arcsec) x101 regions

tbabs * (powlaw + 5 gaussians)

1.856 keV Si Bulk Motion



ACIS-S3 + Andy 2020 IACHEC Model

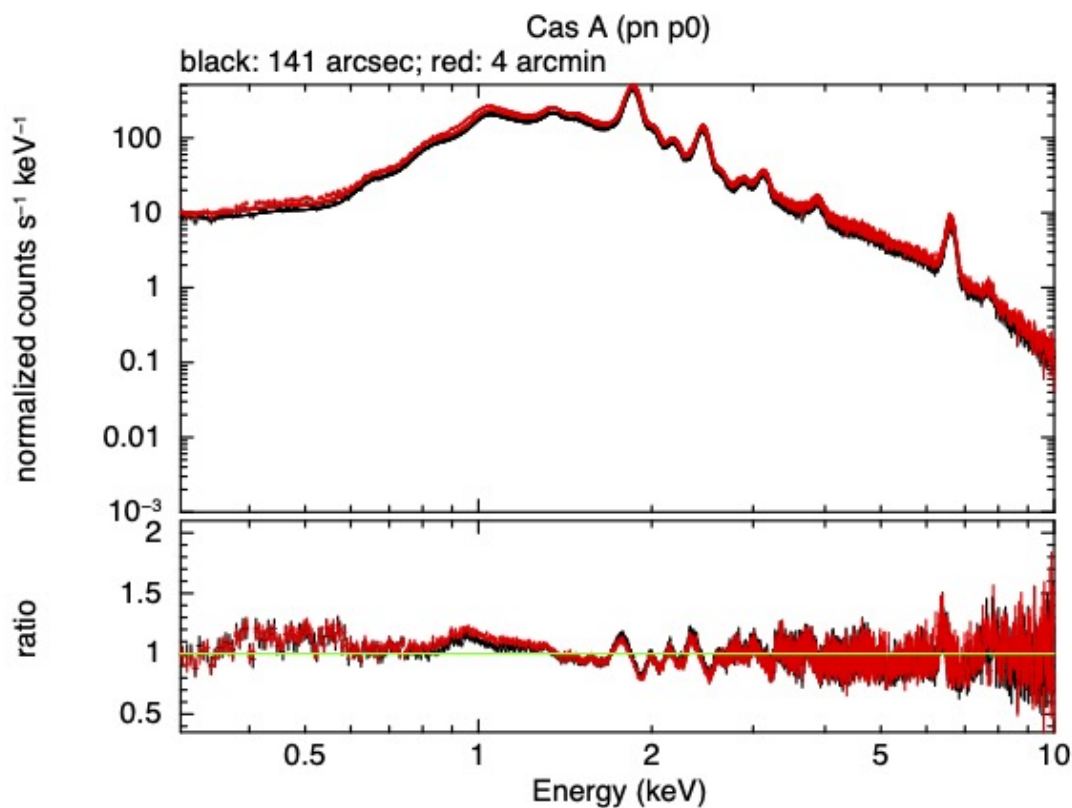
https://wikis.mit.edu/confluence/download/attachments/146351522/Beardmore_CasA.pdf



Cas A



- pn (pattern 0)



ACIS-S3

