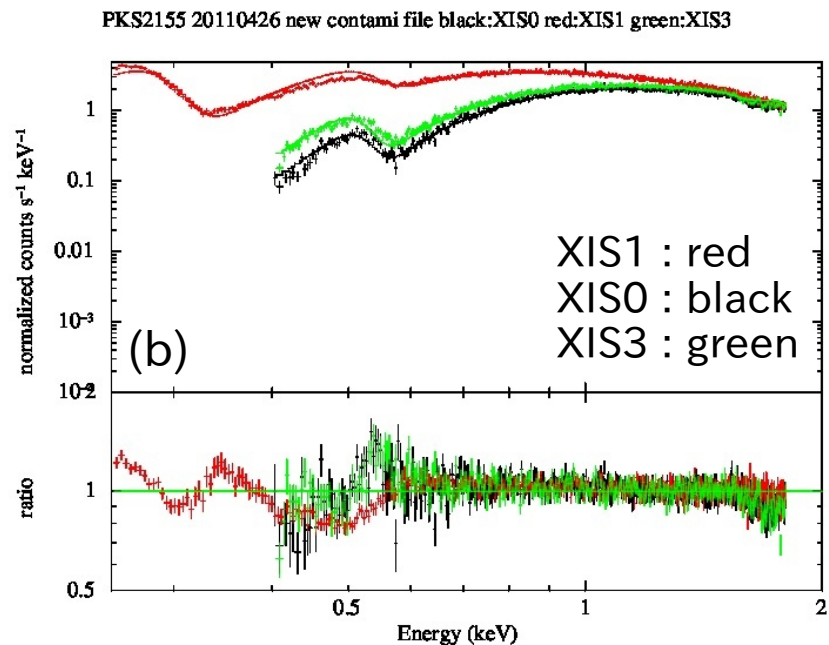
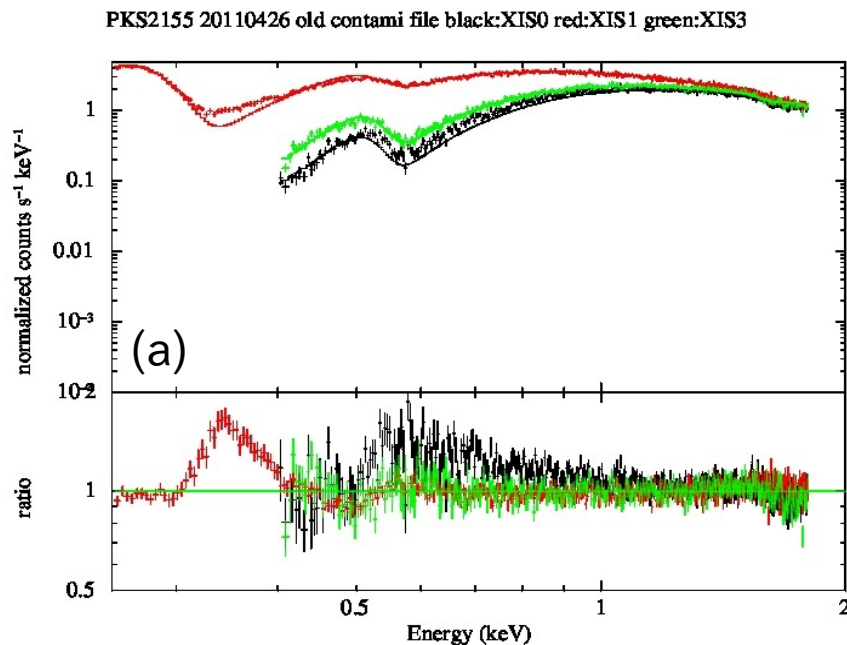


# Update of XIS contamination model (1) chemical composition

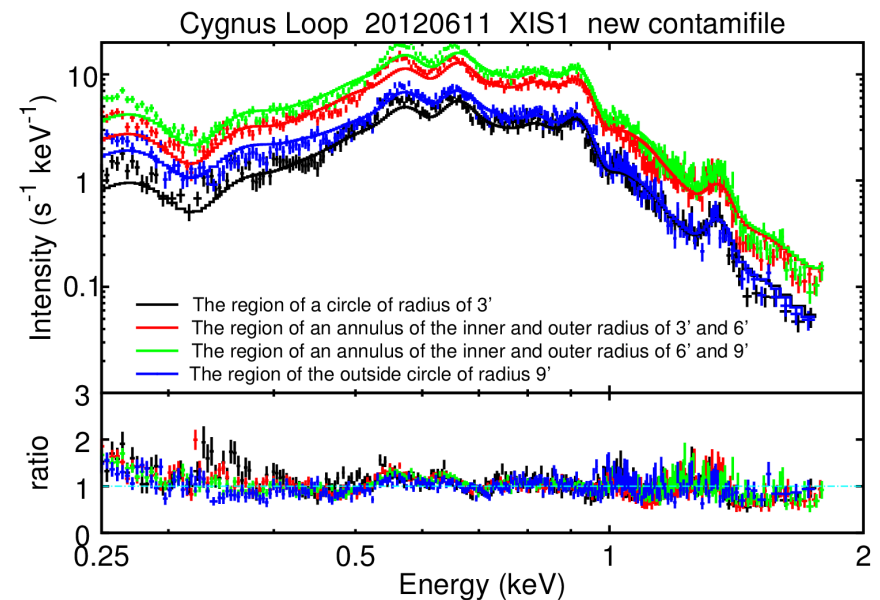
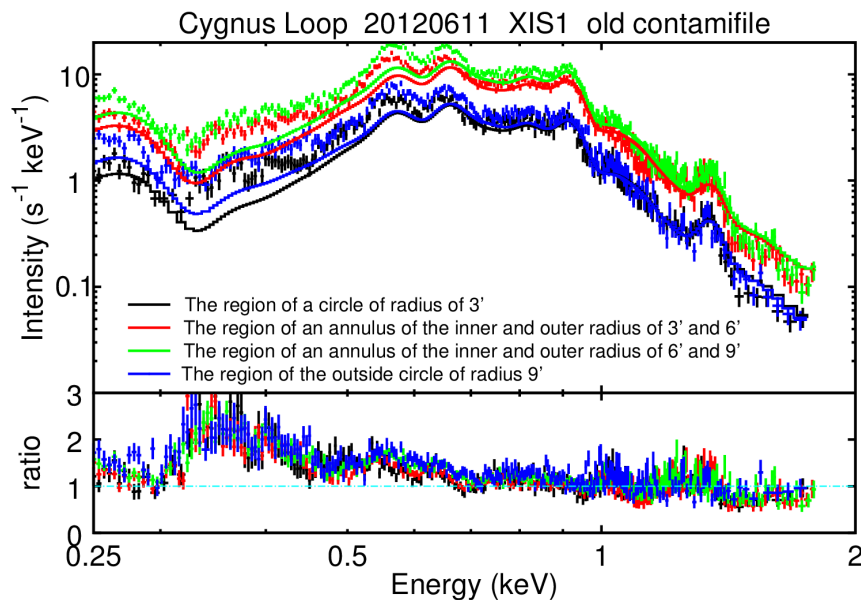
- The XIS0-3 contamination models (ae\_xi?\_contami\_?????.fits) were updated to better represent the changes in the low energy response.
- The time dependance of the chemical composition at the XIS center was revised by (i) adding N to the XIS1 contaminant, (ii) adding PKS2155-304 as a new cal source, (iii) revising the standard models for cal sources E0102-72 and RXJ1856.5-3754, (iv) adding new data since previous release, etc.
- **xissimarfgen** uses the latest contami files automatically. Use the **contamifile** option to use previous versions if necessary.



PKS2155-304 (2011/04/26) fitting with (a) old and (b) new contami model.

# Update of XIS contamination model (2) spatial distribution

- The XIS0-3 contamination models (ae\_xi\*\_contami\_?????.fits) were updated to better represent the changes in the low energy response.
- The spatial model;  $N(r,t)=N(r=0,t)/\{1+(r/A)^B\}$ , in which  $N$  is the column density of each chemical component,  $r$  is off-axis angle,  $t$  is time, and  $A$  &  $B$  are free parameters. The parameters were revised by (i) using the revised chemical composition at  $r=0$ , (ii) making  $B$  as a free parameter (fixed previously), and (iii) adding new data since previous release, etc.
- **xissimarfgen** uses the latest contami files automatically. Use the **contamifile** option to use previous versions if necessary.



Cygnus Loop (20120611, XIS1) fitting with (a) old and (b) new contami model.