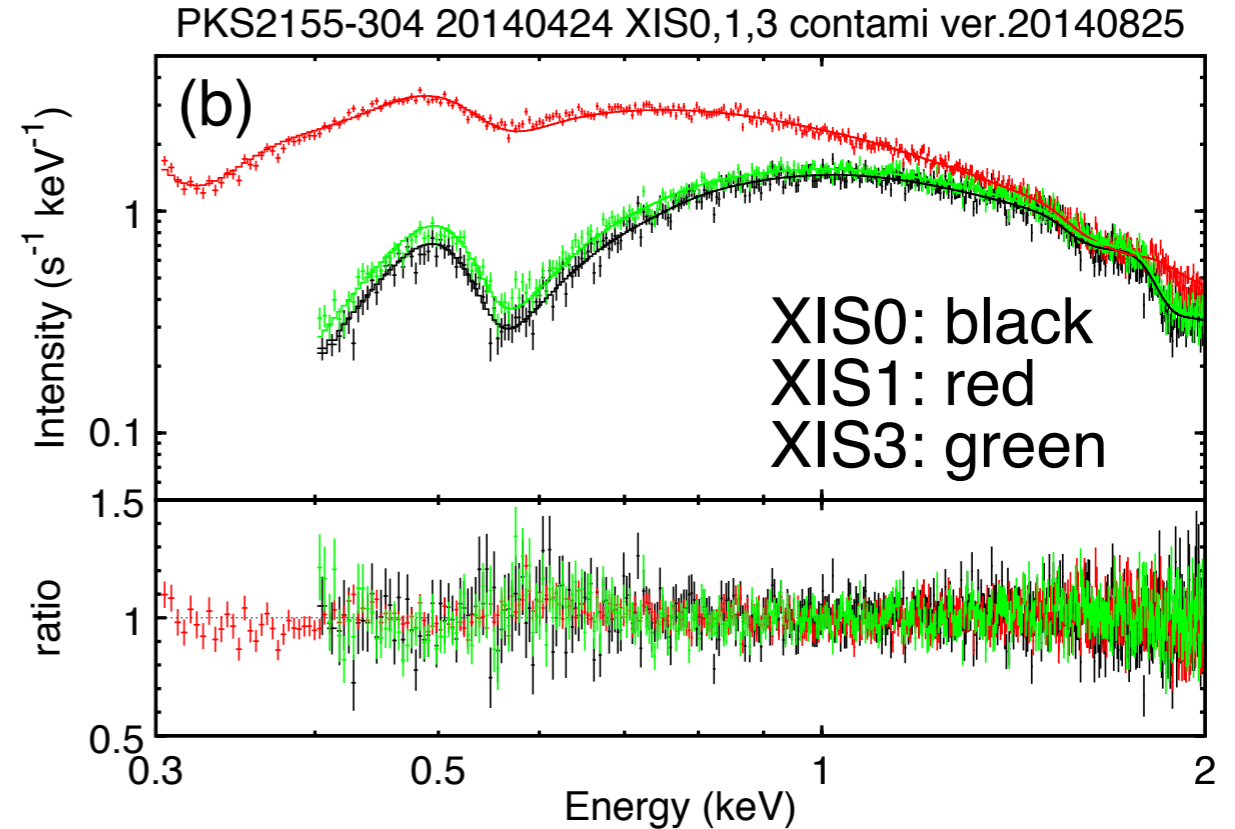
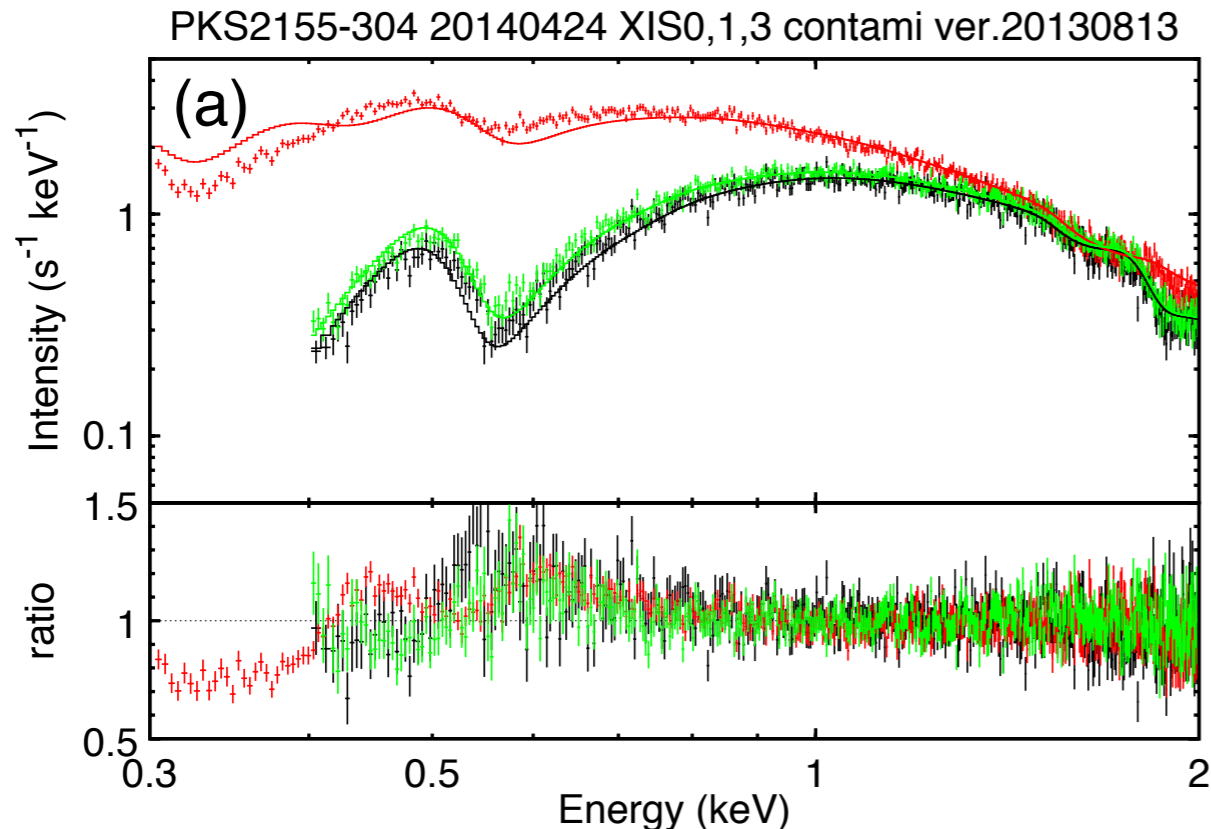


# Update of XIS contamination model

## (1) chemical composition

- The XIS0-3 contamination models (ae\_xi?\_contami\_YYYYMMDD.fits) were updated to better represent the changes in the low energy response.
- The time dependence of the chemical composition at the XIS center was revised by adding new data since the previous release.
- **xissimarfgen** uses the latest contamination files automatically. Use the **contamfile** option to use a previous version if necessary.

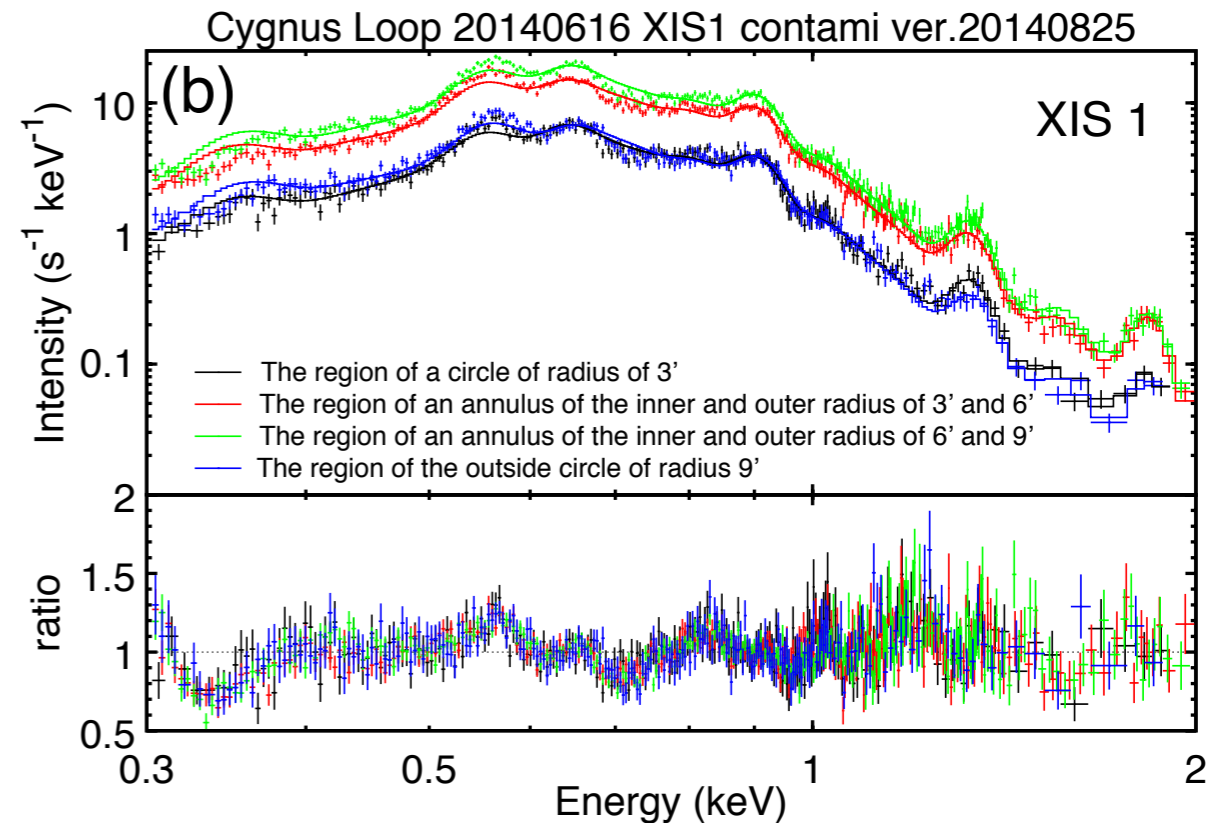
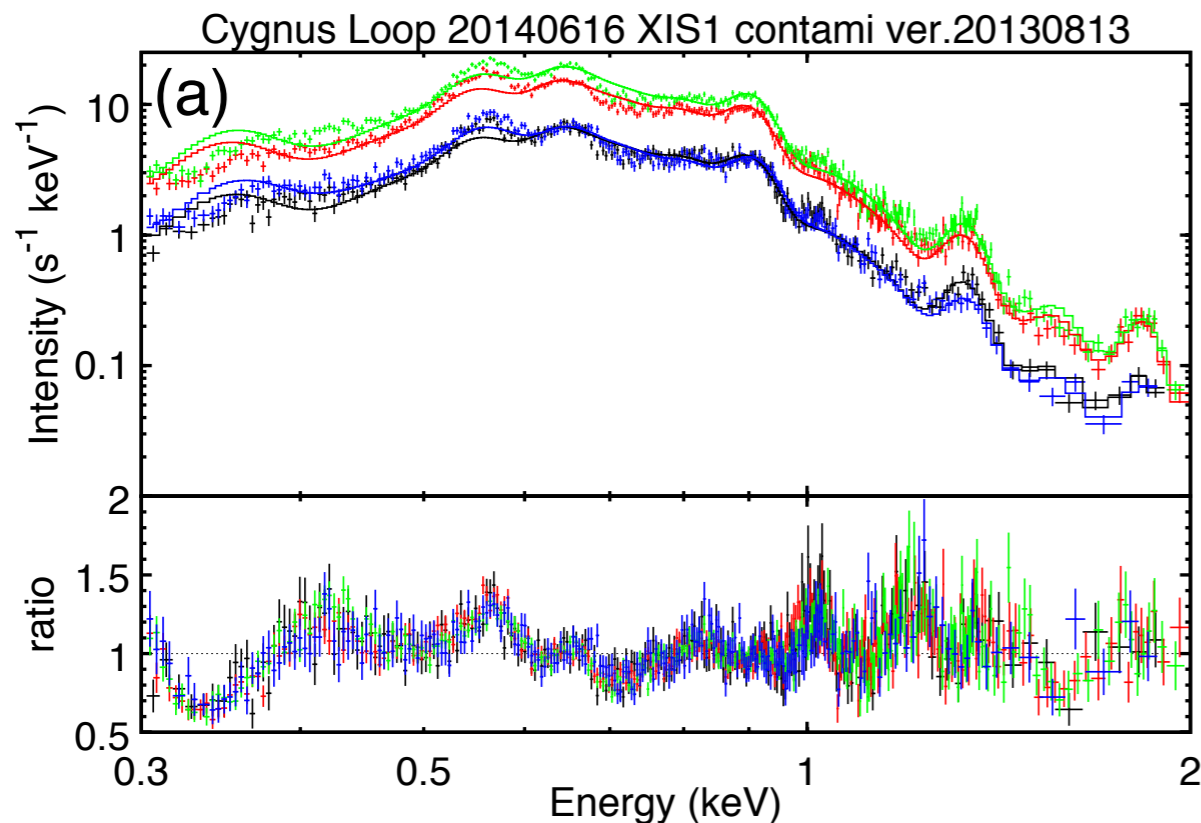


PKS2155-304 (2014/04/24) fitting with (a) old and (b) new contamination file.

# Update of XIS contamination model

## (2) spatial distribution

- The XIS0-3 contamination models (ae\_xi\*\_contami\_YYYYMMDD.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 using the revised chemical composition at  $r=0$ .



Cygnus Loop P8 (2014/06/16) fitting with (a) old and (b) new contamination file.