

Correction to Chianti Continuum used in F\_vth

Prior to 1-sep-2012 the computation I had been making for the thermal brem x-ray continuum using Chianti had not included the 2photon component of the spectrum. That was by accident and not by design. The way I had been calling the routine forced the output to be 0 for that component. Thanks to Jim McTiernan that error was discovered yesterday and I have implemented a fix today.

I am putting corrected versions of the generating routines and the continuum IDL save file online today. I am renaming the previous V70 save file. I'm including this document as in `ssw/packages/xray/dbase/chianti` as a file called `README_2PHOTON_CONTINUUM_ISSUE.pdf`. I'm also including, in the same directory, a plot file called, `Diff Spectrum for T= 2keV w&wo 2phot.pdf` To toggle between the two continuum save files use

```
chianti_kev_cont_common_load, filename, /reload
```

where filename is either `chianti_cont_1_250_v70.sav` or `chianti_cont_1_250_v70_no2photon.sav` and then call `f_vth` again.

Changes:

In `SSW/packages/xray/dbase/chianti`

The former `chianti_cont_1_250_v70.sav` becomes `chianti_cont_1_250_v70_no2photon.sav`

A new version of `chianti_cont_1_250_v70.sav` goes online

This README file is included.

A plot file showing the fractional difference between the total Cont (only) spectra for a temp of 2 keV for the case of including and not including the 2 photon component.

In `SSW/packages/xray/idl`

New versions go online of

```
setup_chianti_cont.pro and setup_chiani_cont_hess.pro
```