

- **acisabs: Chandra ACIS q.e. decay**

This model accounts for the decay in the ACIS quantum efficiency most likely caused by molecular contamination of the ACIS filters. The user needs to supply the number of days between Chandra launch and observation. The `acisabs` parameters related to the composition of the hydrocarbon and the rate of decay should be frozen and not modified. The present version of `acisabs` is to be used for the analysis of bare ACIS I and ACIS S data. For the present version of `acisabs` one must use the standard qe file `vN0003` instead of the optional `vN0004` file.

Because of the present large uncertainty in the ACIS gain at energies below 350eV we recommend that events in the 0—350eV range be ignored in the spectral analysis until the gain issue is resolved.

`acisabs` calculates the mass absorption coefficients of the contaminant from atomic scattering factor files provided at

http://henke.lbl.gov/optical_constants/asf.html .

par1	Days between Chandra launch and ACIS observation
par2	Slope of linear quantum efficiency decay
par3	Offset of linear quantum efficiency decay
par4	Number of carbon atoms in hydrocarbon
par5	Number of hydrogen atoms in hydrocarbon
par6	Number of oxygen atoms in hydrocarbon
par7	Number of nitrogen atoms in hydrocarbon