

- **gsmooth: gaussian smoothing**

Gaussian smoothing with a variable width  $\Sigma(E)$ , which varies as the par2 power of the energy. The width at 6 keV is set with par1

$$dC(E) = \frac{1}{\sqrt{2\pi\Sigma(E)^2}} \exp\left[-\frac{1}{2}\left(\frac{E-X}{\Sigma(E)}\right)^2\right] A(X) dX$$

$$\Sigma(E) = \sigma (E/6)^\alpha$$

where :

par1=  $\sigma$       gaussian sigma at 6 keV

par2=  $\alpha$       power of energy for sigma variation

