

- **lorentz: lorentz line profile**

A Lorentzian line profile.

$$A(E) = K \frac{\sigma/2\pi}{[(E - E_L)^2 + (\sigma/2)^2]}$$

where:

par1 = E_L	line energy in keV
par2 = σ	FWHM line width in keV
norm = K	photons cm ⁻² s ⁻¹ in the line