

cutoffpl: power law, high energy exponential cutoff

A power law with high energy exponential rolloff.

$$A(E) = KE^{-\alpha} \exp\left(-E/\beta\right)$$

par1 = α power law photon index

par2 = β e-folding energy of exponential rolloff (in keV)

norm = K Photons keV⁻¹cm⁻²s⁻¹ at 1 keV

If POW_EMIN and POW_EMAX have been defined by the **xset** command then the norm becomes the flux in units of 10⁻¹² ergs cm⁻² s⁻¹ over the energy range (POW_EMIN, POW_EMAX) keV unless POW_EMIN = POW_EMAX in which case the norm becomes the flux density in micro-Jansky at POW_EMIN keV. In these cases it is important that POW_EMIN and POW_EMAX lie within the energy range on which the model is being evaluated.