

- **smedge: smeared edge**

A smeared edge (Ebisawa PhD thesis, implemented by Frank Marshall).

$$M(E) = \begin{cases} 1 & E < E_c \\ \exp\left[-f(E/E_c)^\alpha\right] \left[1 - \exp\left(\{E_c - E\}/W\right)\right] & E \geq E_c \end{cases}$$

where:

- par1= E_c the threshold energy (keV)
- par2= f the maximum absorption factor at threshold
- par3= α index for photo-electric cross-section (normally -2.67)
- par4= W smearing width (keV)