

swind1: absorption by partially ionized material with large velocity shear

A model to fit the soft excess in AGN by partially ionized absorbing material with large velocity shear. It approximates this by using XSTAR kn5 photoionization absorption model grids (calculated assuming a microturbulent velocity of 100km/s), and then convolving this with Gaussian smearing. This is the model used by Gierlinski & Done 2006, Sobolewska & Done 2006 and Done et al 2006. It is an update (uses a newer version of XSTAR) of the original model of Gierlinski & Done 2004.

par1 = column density (10^{22} cm^{-2})

par2 = $\log(\xi)$ where $\xi=L/nr^2$

par3 = sigma : Gaussian sigma for velocity smearing (v/c)

par4 = redshift