

- **nteea: non-thermal pair plasma**

A nonthermal pair plasma model based on that of Lightman & Zdziarski (1987, ApJ 319, 643) from Magdziarz and Zdziarski. It includes angle-dependent reflection from Magdziarz & Zdziarski (1995, MNRAS 273, 837). The abundances are set up by the command [abund](#). Send questions or comments to aaz@camk.edu.pl

par1	nonthermal electron compactness
par2	blackbody compactness
par3	scaling factor for reflection (1 for isotropic source above disk)
par4	blackbody temperature in eV
par5	the maximum Lorentz factor
par6	thermal compactness (0 for pure nonthermal plasma)
par7	Thomson optical depth of ionization electrons (<i>e.g.</i> , 0)
par8	electron injection index (0 for monoenergetic injection)
par9	minimum Lorentz factor of the power law injection (not used for monoenergetic injection)
par10	minimum Lorentz factor for nonthermal reprocessing $1 < \text{par10} \leq \text{par9}$
par11	radius in cm (for Coulomb/bremsstrahlung only)
par12	pair escape rate in c (0-1, see Zdziarski 1985, ApJ, 289, 514)
par13	cosine of inclination angle
par14	iron abundance relative to that defined by abund
par15	redshift z
norm	photon flux of the direct component (w/o reflection) at 1~keV in the observer's frame.