

- **varabs, zvarabs: photoelectric absorption**

A photoelectric absorption with variable abundances using cross-sections set by the **xsect** command. The column for each element is in units of the column in a solar abundance column of an equivalent hydrogen column density of 10^{22}cm^{-2} . The Solar abundance table used is set by the **abund** command. These models differ from the models vphabs, zvphabs only by the units in which the abundances are expressed (vphabs, zvphabs define these relative to the solar abundance, not in terms of column density).

par1- par18 equivalent columns for H, He, C, N, O, Ne, Na, Mg, Al, Si, S, Cl, Ar, Ca, Cr, Fe, Co, Ni

The zvarabs variant allows the user to specify a (fixed) redshift, i.e. the parameters are:

par1–par18 equivalent columns for H, He, C, N, O, Ne, Na, Mg, Al, Si, S, Cl, Ar, Ca, Cr, Fe, Ni, Co

par19 redshift