

- **sresc: synchrotron spectrum, cut off by particle escape**

The synchrotron spectrum from an electron distribution limited by particle escape above some energy. The electrons are shock-accelerated in a Sedov blast wave encountering a constant-density medium containing a uniform magnetic field. The model includes variations in electron acceleration efficiency with shock obliquity, and post-shock radiative and adiabatic losses, as described in Reynolds, S.P., ApJ 493, 357 1998. This is a highly specific, detailed model for a fairly narrow set of conditions. See also Reynolds, S.P., ApJL 459, L13 1996. Note that the radio spectral index and flux can be obtained from Green's Catalogue at <http://www.mrao.cam.ac.uk/surveys/snrs> for galactic SNRs.

par1	alpha: radio spectral index (flux proportional to frequency $f^{-\alpha}$)
par2	break Hz: approximately the frequency at which the flux has dropped by a factor of 6 below a straight power law extrapolation from radio frequencies. This frequency is 5.3 times the peak frequency radiated by electrons with energy E_{m3} in a magnetic field of $4B_1$, in the notation of Reynolds (1998), Eq. (19).
norm	1 GHz flux (Jy)