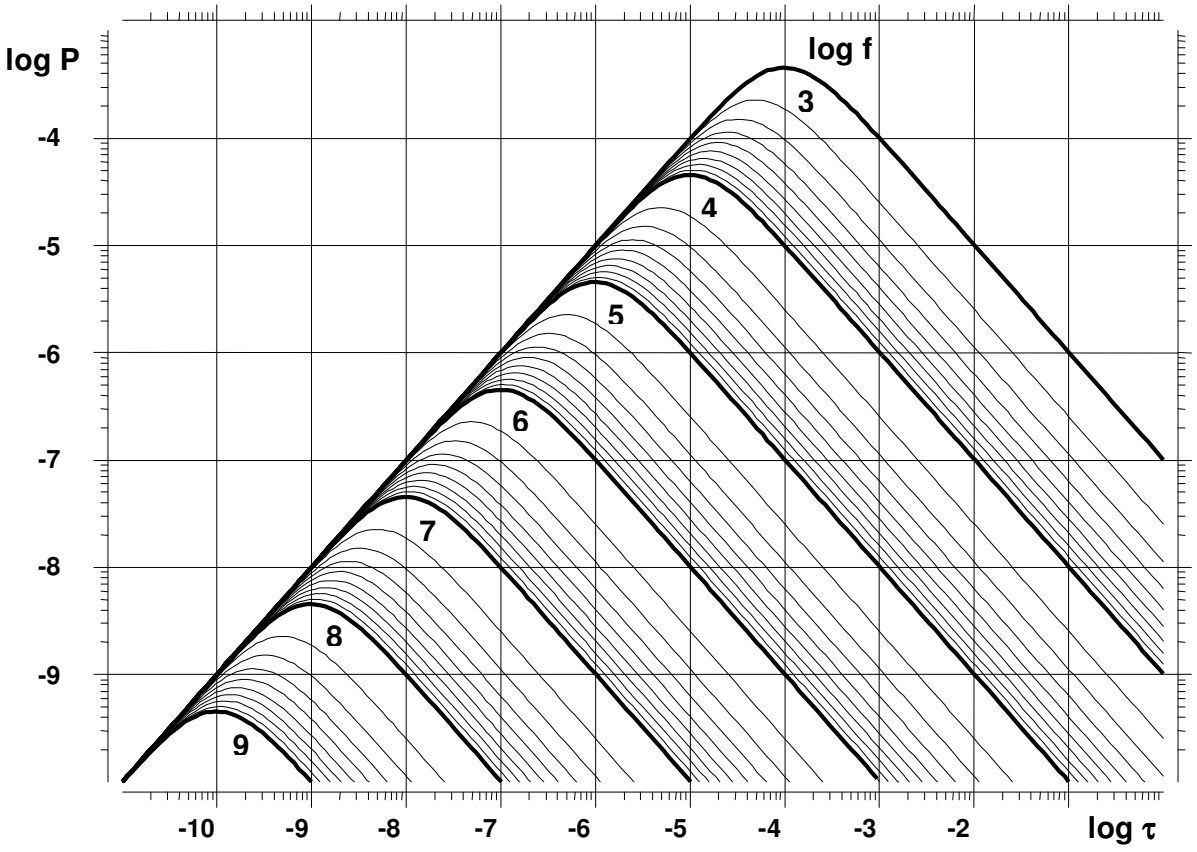
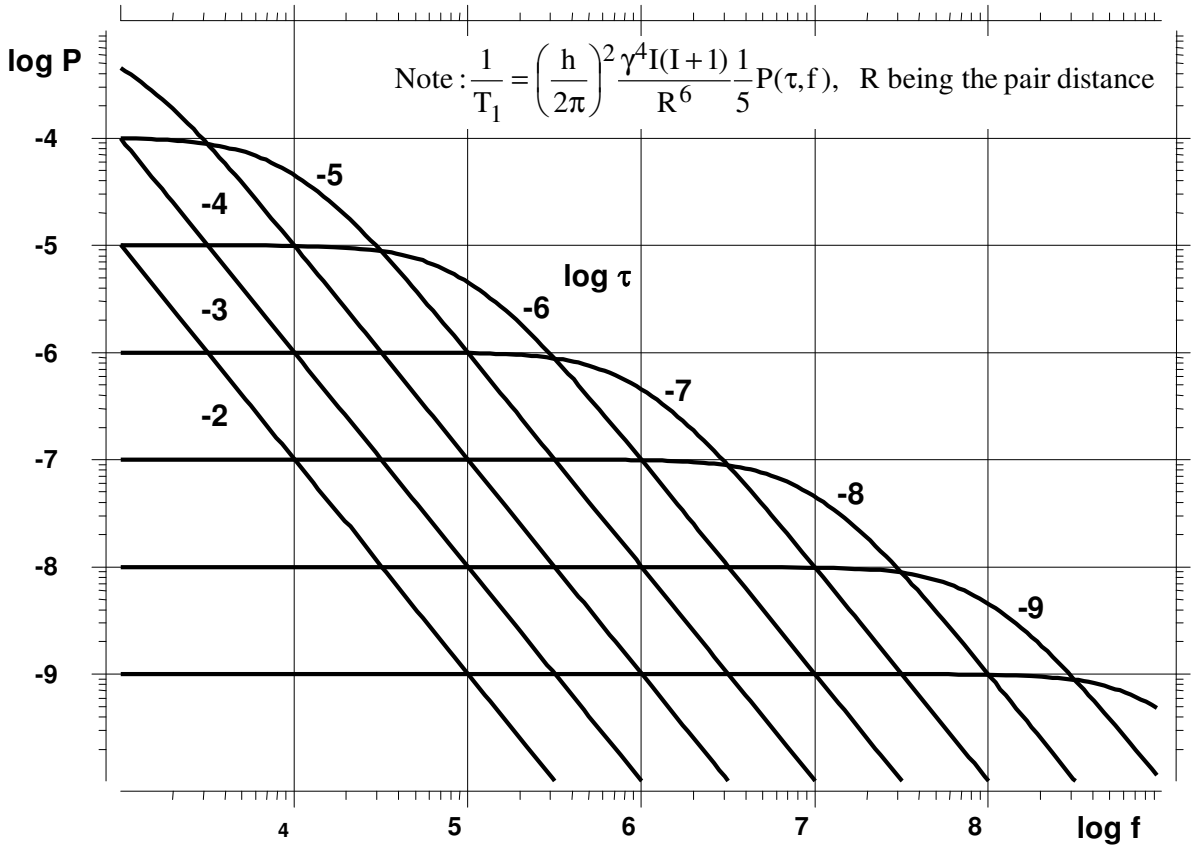
Bloembergen-Purcell-Pound (BPP) relaxation shape factor

$P(\tau,f) = J_\tau(\omega)+4\,J_\tau(2\omega)$, where $J_\tau(\omega) = 2\tau/[1+(\omega\tau)^2]$ and $\omega = 2\pi f$

for a pair of spin ½ nuclides of the same kind under isotropic rotational diffusion (dipolar interation)





Plotted and edited by Stan Sykora (2000). URL: http://www.ebyte.it/library/downloads

Source: Abragam, The Principles of Nuclear Magnetism, Oxford University Press 1973, Chapter VIII, p.300