

NMR-Spektroskopie in der Anorganischen Chemie

diamagnetic	paramagnetic (hyperfine interaction)
Indirect <i>scalar coupling</i> (J), <i>Fermi contact</i> interaction (in organic molecules 4-5 bonds)	(<i>Fermi</i>) <i>contact shift</i> (δ^{cs}), electron magnetic moment at location of nucleus, "through-bond", short-range (5-6 bonds from paramagnetic center, except conjugated systems)
Direct (through space) <i>dipole-dipole coupling</i> , (distances in organic molecules within 4-5 Å, proportional r^{-6})	<i>Pseudocontact shift</i> (δ^{pcs}), long-range dipole-dipole coupling, "through-space", like δ^{cs} independent of orientation of nucleus, not cancelled-out by molecular reorientation, adds up to isotropic dipolar shift (proportional r^{-3})