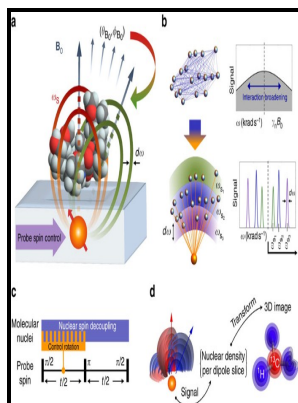


Effect of magnetic dipole interactions in solids on the orientation of nuclei.

- - Nuclear Magnetic Moment



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-effect of magnetic dipole interactions in solids on the orientation of nuclei.

Notes: Thesis (M.A.), Dept. of Physics, University of Toronto

This edition was published in 1963



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Tags: #Magnetic #rotation #in #nuclei

Solid

Souche, Les effets magneto-optiques in *Magnetisme I, Fondaments* EDP Science, 2000. Rotational pseudo-fields increase or decrease the precession frequency of the ^{13}C nuclei, and thus change the time when the spin-echo signal revives. This usually undesirable effect is commonly referred to as dipolar truncation.

Nuclear Magnetic Moment

Specialized hardware probe has been developed for such experiments. Anisotropic reorientations can be achieved either when molecules interact with strongly aligned objects or when the molecules themselves have some preferred orientations in a high magnetic field because their magnetic susceptibility is anisotropic. However, the second-order quadrupolar interaction depends on the P_4 Legendre polynomial, which has zero points at 30° .

Magnetic dipole

Earlier attempts to estimate the magnitude of the effective fields which might provide rotation angles close to the observed ones in ferromagnetic materials, led to values of 10^2 — 10^3 T, approaching the value of the Weiss field introduced later for explaining the origin of the ferromagnetism.

Magnetic pseudo

In the Barnett effect, for example, the effective magnetic field generated by physically rotating an initially unmagnetized rod of iron leads to polarization of the constituent electron spins along the rotation axis, and magnetization of the iron sample. The action of the spin-dependent operators FC, SD on a singlet wavefunction produces a triplet state. *Nature Phys* 13, 1070—1073 2017.

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