

MAGNETIC IONS IN CRYSTALS%0A

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Stevens, K.; *Magnetic Ions in Crystals* (Paperback ... There have been many demonstrations, particularly for magnetic impurity ions in crystals, that spin-Hamiltonians are able to account for a wide range of experimental results in terms of much smaller numbers of parameters.

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This causes the magnetic fields of the electrons to cancel out; thus there is no net magnetic moment, and the atom cannot be attracted into a magnetic field. In fact, diamagnetic substances are weakly repelled by a magnetic field as demonstrated with the pyrolytic carbon sheet in Figure 2.7.2.

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4.1. Magnetism of the Rare-Earth Ions in Crystals In this chapter we present the basic facts regarding the physics of magnetic phenomena of rare-earth ions in crystals.

[Magnetic Field at the Nucleus in Spinel-Type Crystals ...](#)

SO W. R. DA T A R S A N D R. N. D E X T E R 0.088 wo, when the magnetic field was along a bisectrix axis, but

did not observe the second effective mass expected for the

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The problem of searching for low-dimensional magnetic systems has been a topical subject and has attracted attention of the chemistry and physics community for the last decade. In low-dimensional magnetic systems, magnetic ions are distributed anisotropically and form different groups such as dimers, chains, ladders, or planes. In 3D frameworks

[Is it possible to change the direction of ions with ...](#)

When an atom becomes an positive ion, magnetic field should be able to repel it. But my question is, is this possible? First of all, if magnetic field can change the direction of flowing electrons then for it to change the direction of ion should be possible.

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Individual ions with fixed magnetic moments may cooperatively align their moments, resulting in the presence of magnetic properties of the crystal as a whole. Ferromagnet crystals have the magnetic moments from all their constituent ions aligned in the same direction; the magnetic moment of the crystal is the summation of the individual moments of the ions.

[What effects, if any, do magnets have on ions in a solution?](#)

Magnetic fields deflect ions IF they are moving through the field. That's why in mass spectrometry, the ions are accelerated to high speeds before they enter the magnetic field. The precession effect is, at the level of the atom, independent of the motion of that atom, and only occurs if the particle is paramagnetic.

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Magnetic ions of transition- and rare-earth groups are characterized by the presence of unpaired electrons. In incompletely filled 3d and 4f inner shells of a magnetic ion, odd number of electrons is responsible for magnetism of various types in these crystals.

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responsible for the magnetic anisotropy of crystals with ions in the S state: dipole, single-ion, and single-ion exchange (symmetric anisotropic exchange), as well as the

anti-

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Magnetic Field of High Speed Ions Page 1 of 2 1 2 Next >

Jun 9, 2011 #1. Drakkith, Staff Emeritus Science Advisor
Hey all. Just a quick question. Would high speed positive ions in a vacuum create a magnetic field that would attract other positively charged particles? If so, why is that? I understand that moving charges creat magnetic fields, but I thought that in the absence of a conductor or

[Optical Properties of 3d-Ions in Crystals - Spectroscopy ...](#)

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So normally, you observe magnetic fields when you have both kinds of charges, but manage to keep one moving and the other hold still, or make them move in opposite directions. Application of electric field works best. Drop two wires into a salt water, apply voltage, and it will create a magnetic field in it.