

# Spin Waves Theory And Applications

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Spin waves are propagating disturbances in the ordering of magnetic materials. These low-lying collective excitations occur in magnetic lattices with continuous symmetry. From the equivalent quasiparticle point of view, spin waves are known as magnons, which are bosonic modes of the spin lattice that correspond roughly to the phonon excitations of the nuclear lattice. As temperature is increased, the thermal excitation of spin waves reduces a ferromagnet's spontaneous magnetization. The energies

## **Spin wave - Wikipedia**

Condensed matter physics is the field of physics that deals with the macroscopic and microscopic physical properties of matter, especially the solid and liquid phases which arise from electromagnetic forces between atoms. More generally, the subject deals with "condensed" phases of matter, systems of very many constituents with strong interactions between them.

## **Condensed matter physics - Wikipedia**

Spin waves (SWs) are wave-like excitations in magnetic materials – the waves propagate by either exchange or dipole

interactions between precessing spins. SWs can be understood as particular, wave-type solutions of the time-dependent Landau-Lifshitz-Gilbert equation (LLG).

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interest for their half-metallicity [18], high magnetic moment, high spin polarization and very high curie temperature [1][19]. They are very useful for device applications e.g. spin-voltage generators [20] and mostly for magnetic tunnel junctions [1]. For Cobalt based

## **Investigation on structural, electronic and magnetic ...**

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- A physical picture of spin waves
- A semi-classical approach to spin waves (ferromagnetic and antiferromagnetic chains, plus variants)
- A quantum treatment of the ferromagnetic chain
- The neutron inelastic cross section of spin waves
- Calculating the spin wave dispersion and its neutron inelastic cross section in practice

Spin Wave Theory

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