

**spin-Peierls transition**

A magneto-elastic transition that occurs in quasi one-dimensional antiferromagnetic materials when the magnetic free energy decrease due to the formation of singlet spin pairs outweighs the increase in lattice free energy occurring as a result of the dimerization of the regular array.

Example: The transition in tetrathiafulvalenium bis(dithiolene)cuprate at 12 K.

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