

spin-state transition

An electronic transition from a high-spin state to a low-spin state, or vice versa.

Example: With an increase in temperature Co^{3+} ions in LaCoO_3 transform from a low-spin state ($t_{2g}^6 e_g^0$) to the high-spin state ($t_{2g}^4 e_g^2$).

Source:

PAC, 1994, 66, 577 (*Definitions of terms relating to phase transitions of the solid state (IUPAC Recommendations 1994)*) on page 591