

Incommensurate spin correlations in lightly-doped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$

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(Received November 24, 1999)

A review is given of the neutron scattering studies in the lightly-doped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$, which exhibits insulating spin-glass behavior. Most remarkable feature is that the static spin correlations are incommensurate at low temperature across the entire insulating spin-glass region. The incommensurate positions imply a one-dimensional spin modulation which is rotated by 45° from that in the superconducting phase.

KEYWORDS: $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$, spin-glass, stripe ordering, neutron scattering