

SPIN-WAVE RESONANCE IN MANGANITES

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S u m m a r y

A review of experimental studies of magnon excitations in manganites by microwave technique is presented. The main result obtained is the observation of the spin-wave resonance (SWR) consisting of a series of well-resolved standing spin-wave modes. The surface spin-wave modes have been observed in manganites for the first time. The surface modes data are consistent with the surface-inhomogeneity model, in which the surface-anisotropy field acts on the surface spin. At low temperatures for small wave vectors $k \rightarrow 0$, the dispersion relation has a quadratic shape similar to that observed in Heisenberg ferromagnets.