

Role of the rare-earth atoms affecting the spin fluctuation scattering in the (RE, Y)Co₂ compounds

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Abstract: For a number of (RE, Y)Co₂ compounds (RE = Er, Dy, Tb, Gd) the influence of the localized 4f moments, interacting with the itinerant 3d matrix, is accentuated by subtracting the resistivity of YCo₂ from the observed resistivity values. The results show that spin fluctuation scattering is enhanced not only just above T_c in the compounds where the induction of the itinerant Co moments starts, but in the whole paramagnetic temperature range in all investigated compounds. ?? 1991.

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