

Influence of Al-atoms on the spin fluctuation scattering in $R(\text{Co}, \text{Al})_2$ compounds

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Abstract: The resistivity and magnetisation have been measured for the $R(\text{Co}_{1-x}\text{Al}_x)_2$ compounds with $R = \text{Nd}, \text{Gd}, \text{Tb}, \text{Dy}, \text{Ho}, \text{Er}$ and Lu . For $x = 0.2$ the resistivity enhancement is observed below T_c however, for the compounds with $R = \text{Lu-Tb}$ only. The results are discussed in terms of the spin fluctuation scattering and indicate that the enhancement of the spin fluctuation scattering is strongly related to the lattice parameter. ?? 1992.

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