RESISTIVITY OF Ceal; - DILUTED IN (La, Y,)Al; MATRICES*

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The resistivity of homogeneous $\{(La,...,Y_s)_{s-s},Ce,\}Al_s$ alloys was measured. From the quadratic temperature dependence of the incremental resistivity observed at low temperatures an enhancement of the Kondo temperature by two orders of magnitude is inferred. A magnetic-nonmagnetic transition was observed in dilute $(Y_1...,Ce_s)Al_s$ alloys (x=0.07).

The low temperature properties of CeAl; not yet completely understood are the subject of several contributions to this conference. In order to study the role of the Kondo effect in this system we have started a program in which the magnetic behavior of diluted CeAl; is investigated as a function of the lattice parameter.

In this paper we present preliminary resistivity data between 1.5 and 300 K of pseudobinary solutions of CeAl, in the isostructural (La, Y.) Al, matrices. The same moderate amount of CeAl, (x = 0.15) was chosen to provide a clear extraction of the magnetic resistivities from the residual and electron phonon resistivities. The latter were obtained in independent measurements from the corresponding nonmagnetic matrices. X-ray analysis reveals that all of the alloys under investigation are of single phase and that the mean lattice parameter of the matrices decreases linearly with z from a = 8.15 Å (z = 0) to a = 7.86 Å(z=1). Therefore, CeAl, (a=8.06 Å) can be either expanded or contracted by solution in an appropriate (La, ., Y,)Al2 matrix.

Details concerning preparation of the polycrystalline samples and experimental procedures will be published elsewhere [1]. We note here that the relative accuracy of the resistivity measurement is 2 × 10⁻⁴ whereas an absolute error of order 10% due to the uncertainty of the geometric factor cannot be avoided.

In fig. 1a the resistivity of five [(La₁₋₁Y₁)_{0.87}Ce_{0.13}]Al₂ samples is given as a function of temperature on a logarithmic scale. There exists a resistivity minimum, which shifts to higher temperatures upon increasing Y-

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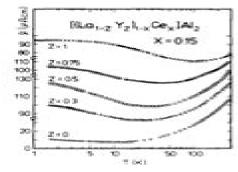


Fig. 1a. Resistivity of [(La,..,Y,),...,Ce,..,]Al, alloys with various Y-concentrations as a function of temperature (logarithmic scale).

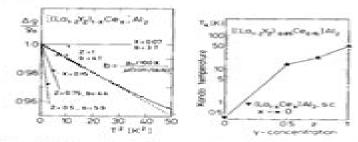


Fig. 1b. Normalized incremental resistivity $\Delta \rho/\rho_n$ for $(Y_{nm}Ce_{nm})Al_0$ as a function of T^* . Solid lines: initial $\Delta \rho/\rho_n$ vs. T^* dependences for $\{(L_n, ..., Y_n)_{nm}Ce_{nm}\}Al_1$ with z=0.75 and 0.5, respectively, and for $(Y_{nm}Ce_{nm})Al_0$.

Fig. 1c. Kondo temperature (logarithmic scale) as a function of Y-concentration for f(La_{1-x}Y_x)_{h,x}Ce_{0,x}|A|_p. T_w(z = 0) = 0.36 K from ref. 3.

concentration. Our data display a marked enhancement of the Kondo temperature caused by the increasing contraction of the lattice. This

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