

RESISTIVITY OF CeAl_2 - DILUTED IN $(\text{La}_{1-x}\text{Y}_x)\text{Al}_2$ MATRICES*

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The resistivity of homogeneous $[(\text{La}_{1-x}\text{Y}_x)_{1-x}\text{Ce}_x]\text{Al}_2$ 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 $(\text{Y}_{1-x}\text{Ce}_x)\text{Al}_2$ alloys ($x = 0.07$).

The low temperature properties of CeAl_2 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_2 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_2 in the isostructural $(\text{La}_{1-x}\text{Y}_x)\text{Al}_2$ matrices. The same moderate amount of CeAl_2 ($x = 0.15$) 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 $a = 8.15 \text{ \AA}$ ($z = 0$) to $a = 7.86 \text{ \AA}$ ($z = 1$). Therefore, CeAl_2 ($a = 8.06 \text{ \AA}$) can be either expanded or contracted by solution in an appropriate $(\text{La}_{1-x}\text{Y}_x)\text{Al}_2$ 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 $[(\text{La}_{1-x}\text{Y}_x)_{1-x}\text{Ce}_{0.15}]\text{Al}_2$ 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-

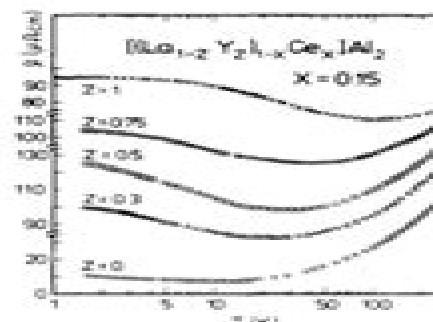


Fig. 1a. Resistivity of $[(\text{La}_{1-x}\text{Y}_x)_{1-x}\text{Ce}_{0.15}]\text{Al}_2$ alloys with various Y-concentrations as a function of temperature (logarithmic scale).

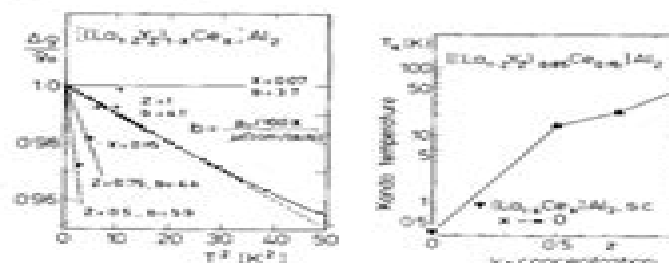


Fig. 1b. Normalized incremental resistivity $\Delta\rho/\rho_0$ for $(\text{Y}_{1-x}\text{Ce}_x)\text{Al}_2$ as a function of T^2 . Solid lines: initial $\Delta\rho/\rho_0$ vs. T^2 dependences for $[(\text{La}_{1-x}\text{Y}_x)_{1-x}\text{Ce}_{0.15}]\text{Al}_2$ with $z = 0.75$ and 0.5 , respectively, and for $(\text{Y}_{1-x}\text{Ce}_x)\text{Al}_2$.

Fig. 1c. Kondo temperature (logarithmic scale) as a function of Y-concentration for $[(\text{La}_{1-x}\text{Y}_x)_{1-x}\text{Ce}_{0.15}]\text{Al}_2$. $T_K(z = 0) = 0.36 \text{ K}$ from ref. 3.

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

* Work performed within the research program of the Sonderforschungsbereich 125 Aachen/Jùlich/Kùln.

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