

RESISTIVITY OF  $\text{CeAl}_2$  - 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  $\text{CeAl}_2$  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  $\text{CeAl}_2$  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  $\text{CeAl}_2$  in the isostructural  $(\text{La}_{1-x}\text{Y}_x)\text{Al}_2$  matrices. The same moderate amount of  $\text{CeAl}_2$  ( $x = 0.15$ ) 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,  $\text{CeAl}_2$  ( $a = 8.06 \text{ \AA}$ ) 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  $2 \times 10^{-4}$  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-

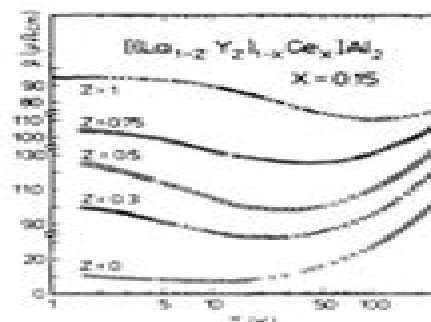


Fig. 1a. Resistivity of  $[(\text{La}_{1-x}\text{Y}_x)_{1-x}\text{Ce}_{0.15}]\text{Al}_2$  alloys with various Y-concentrations as a function of temperature (logarithmic scale).

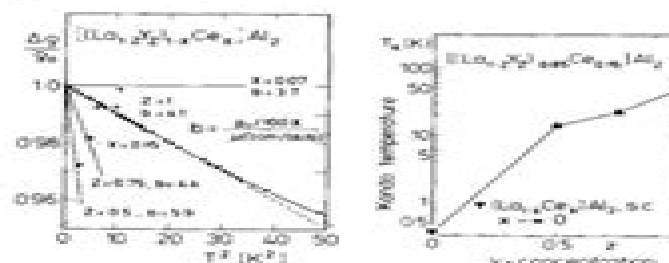


Fig. 1b. Normalized incremental resistivity  $\Delta\rho/\rho_0$  for  $(\text{Y}_{1-x}\text{Ce}_x)\text{Al}_2$  as a function of  $T^2$ . Solid lines: initial  $\Delta\rho/\rho_0$  vs.  $T^2$  dependences for  $[(\text{La}_{1-x}\text{Y}_x)_{1-x}\text{Ce}_{0.15}]\text{Al}_2$  with  $z = 0.75$  and  $0.5$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

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