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Title

MAGNETIC-SUSCEPTIBILITY OF CDL-X MNX TE (0.05 LESS THAN OR EQUAL TO 0.6)

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HL 13 Magnetic Susceptibility of $Cd_{1-x}Mn_xTe$
($0.05 \leq x \leq 0.6$).* Z. FISK, IPAPS-UCSD, R. CALVO, S.
OSEROFF and W. GIRIAT, I.V.I.C., Venezuela.-- We report
measurements of the magnetic susceptibility χ of
 $Cd_{1-x}Mn_xTe$ with $0.05 \leq x \leq 0.6$ performed between 1.3 and
300 K, using the Faraday method. For $T > 40$ K the samples
show a Curie-Weiss behavior and a negative value of the
Curie temperature which decreases linearly with the
composition x . For $x \geq 0.15$ a minimum in χ^{-1} as a func-
tion of temperature is observed, indicating antiferro-
magnetic behavior. For $x < 0.15$ no ordering phenomena is
shown by the data on $\chi(T)$, instead, a down turn to the
origin is seen on this curve, suggesting a contribution
from finite magnetic clusters.

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