this assumption is not valid. However, in this case the number of Mn atoms remains constant throughout the concentration range, and therefore we expect the number of magnetic d electrons to remain more or less constant.

[23]V. Heine, Phys. Rev. 153, 673 (1967).

[24]R. C. Wayne and L. C. Bartel, Phys. Letters 28A, 196 (1968).

[25]J. B. Goodenough, J. Appl. Phys. 39, 403 (1968).

[26]L. C. Bartel, J. Appl. Phys. 41, 5132 (1970).

[27]R. W. Lynch, J. Chem. Phys. 47, 5180 (1967).

[28]E. P. Wohlfarth (unpublished).

[29]L. C. Bartel and E. P. Wohlfarth, Bull. Am. Phys. Soc. 16, 351 (1971).

[30]If we assume a ratio I/I_b for MnSb, then I/I_b is fixed, through Eq. (3), for the solid solutions when $x > 0$. The results shown in Fig. 7 are independent of the assumed value of I/I_b for MnSb.

[31]The lattice parameters for MnSb and MnAs at $T = 20$ °C were taken from the work of B. T. M. Willis and H. P. Rooksby, Proc. Phys. Soc. (London) 67B, 290 (1954). To obtain values for the intermediate solid solutions a linear extrapolation was used as the data of Ref. 3 suggest.

[32]For $ZrZn_2$, the Fermi level lies at the peak in the density of states that has a full width of approximately 0.16 eV [G. S. Knapp, F. Y. Fradin, and H. V. Culbert, J. Appl. Phys. 42, 1341 (1971)].

[33]J. B. Goodenough (private communication).