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TOTAL ENERGIES AND STRUCTURAL STABILITY II

been completed at present but

F-MnTe, F-CdMnTe$_2$, CdTe and

=6.705 Å is 7.77 eV.

solid

more dilute magnetic int

a larger Mn-Mn interatomic distance).

horizontal lines) relative to the para

for the limiting phase from the data on Cd$_{1-x}$Mn$_x$Te

AF-CdMnTe$_2$

$\Delta H > 0$

E[F-MnTe] . (1)

AF-H-MnTe

$\Delta E^{ZB,H}_{MnTe}$

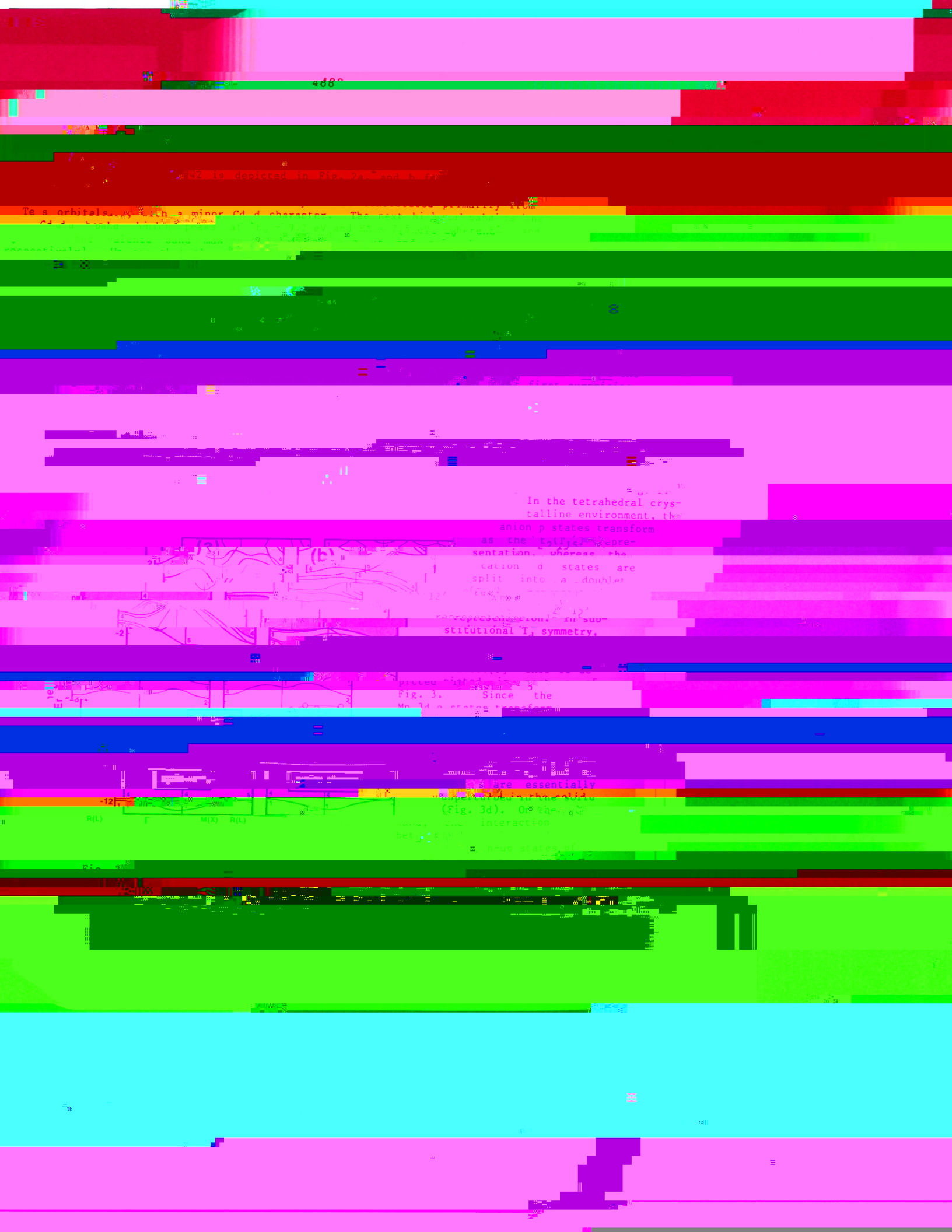
-200

-250

-300

-350

-400


(a)
(b)
-2
-12
R(L)
M(X)
R(L)

between the unoccupied and occupied antibonding states with the t_2 symmetry produces a lower bonding (B_-) and a higher antibonding (AB_-) pair of bands (Fig. 3d). The order of the [illegible] levels can be gathered from the a

[illegible] at the lattice constant

[illegible] energy,

In the tetrahedral crystalline environment the anion p states transform as the t_2 (Γ_{15}) representation, whereas the

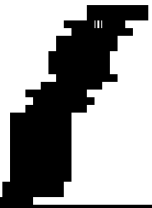
The A_1 energy increases

[illegible] unoccupied spin states above the top of the Fe b bands,

In contrast with the ferromagnetic

(a), (b), (c), (d), (h), (a),

stored [illegible] this is de



We find the calculated

is in good agreement with recent data [Kanjzuchi et al.[1]]

1. J. K. Furdyna, J. Appl. Phys. 53, 7637 (1982) and reference therein.
2. A.
3. S.