

the optical spectra of thalloses

$(\partial E/\partial T)$ average (10^{-4} eV/deg)
+3.4
-1.25
-2.6

tions (9) for TlBr have
 iated with a valence band
 from the Tl ion 6s-states.
 s-states. The large negative
 of PbI_2 and BiI_3 therefore
 from metal 6s-states to the
 s-like symmetry rise in
 like states.
 ot known, and an unequivocal
 E_0 in each material to a
 made. However, considerations
 allous halides, the first tran-
 zone boundary.
 tive temperature coefficient
 to the effect of lattice dilatation,
 rm $(\partial E/\partial T)_V$. In the case of
 optical absorption has both a
 negative pressure coefficient,
 negative in both materials,
 ature coefficient.

References

- (1) CH. GÄHWILLER and G. HARBEKE, Phys. Rev. 185, 1141 (1969).
- (2) D.K. WRIGHT and M.R. TUBBS, phys. stat. sol. 37, 551 (1970).
- (3) M.R. TUBBS, Phys. Letters (Netherlands) 22, 13 (1966).
- (4) A.E. DUGAN and H.K. HENISCH, J. Phys. Chem. Solids 28, 1885 (1967).
- (5) M.R. TUBBS, J. Phys. Chem. Solids 29, 1191 (1968).
- (6) J.A. WILSON and A.D. YOFFE, Adv. Phys. 18, 193 (1969).
- (7) B.L. EVANS, Proc. Roy. Soc. A 289, 275 (1966).
- (8) A.J. GRANT, W.Y. LIANG, and A.D. YOFFE, Phil. Mag., in the press.
- (9) H. OVERHOF and J. TREUSCH, Solid State Commun., in the press.
- (10) M.R. TUBBS, J. sci. Instrum. 43, 698 (1966).

(Received November 11, 1970)