
The author is much indebted to Miss D. SOUBLIÈRE for carrying out the calculations involved in this paper and to Dr. D. K. C. MACDONALD for his helpful comments on the manuscript.

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INTERVENTI E DISCUSSIONI

— C. DOMB:

Dr. DUGDALE's observation that the θ values used in estimating the Lindemann constant C need to be revised would mean a far smaller variation of C with A^* than indicated in my paper. It may help to account for the apparent discrepancy noted between solid hydrogen and solid helium.

DALE

ctly are needed for calculating the
the Debye temperature, the Grün-
and the melting temperature as
ne are listed in Table I.

isen γ and melting temperature of solid
us values of volume.

γ	T_m (°K)
2.71	4.9
2.49	6.6
2.31	8.8
2.17	11.7
2.06	15.5
1.96	20.8
1.87	28.0
1.8	38.5
1.74	53.9
1.68	77.7
1.65	94.5

nt between the extrapolated experi-
ed by the methods outlined in this
elusions:

ve and isochores of the solid can be

point motion of the atoms composing
ium is sufficient to account quite well
ct of the zero point energy is taken
calculations (*); and

ormula appears to be valid over an
fact which deserves close theoretical

st principles, the U_0-V relationship should
This has already been attempted with
a really satisfactory theoretical interato-