

## Velocity of Sound in Liquid Helium.

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As is well known the velocity of sound in liquid helium has a very peculiar behaviour. In fig. 1 the change of the velocity of sound is graphically drawn as a function of temperature. Different investigators (e.g. FINDLAY [1], PER-

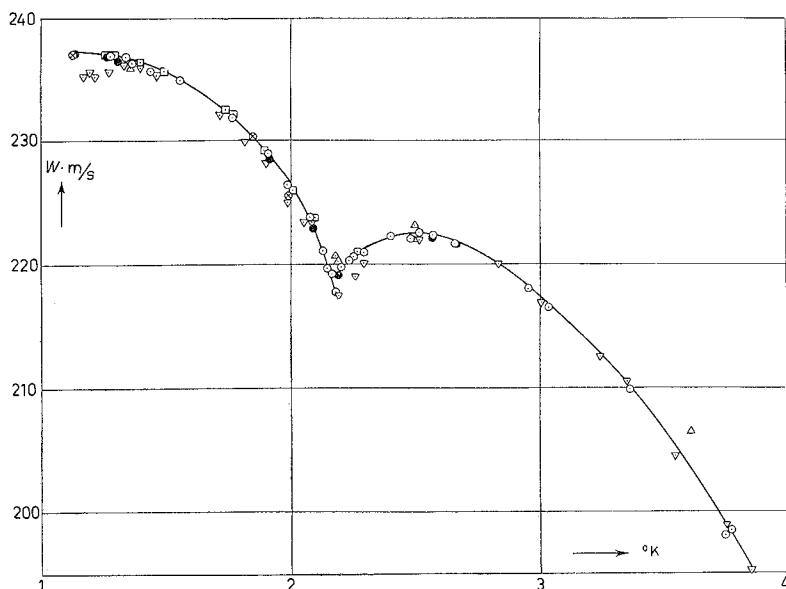


Fig. 1. - Velocity of sound as a function of temperature. FINDLAY 1.388 MHz; ATKINS and CHASE 14 MHz; VAN ITTERBEEK and FORREZ 520, 218, 423.91 and 800.95 kHz.

LAM and SQUIRE [2], ATKINS and CHASE [3], VAN ITTERBEEK and FORREZ [4], CHASE [5]) have contributed to establish this experimental curve.

We can firstly remark the special behaviour at the  $\lambda$ -point and further that no dispersion seems to appear. There are only the deviation of the measu-