

may be expressed as a function of T/ϕ only. It is also possible to treat the results of Keesom & Keesom (1936) at much lower densities and temperatures so that they too lie on this curve, although in this case the fit is not so good. Such discrepancy as occurs is associated with the fact that for values of $T/\phi < 0.10$ our Debye θ values are almost independent of temperature while Keesom & Keesom's values

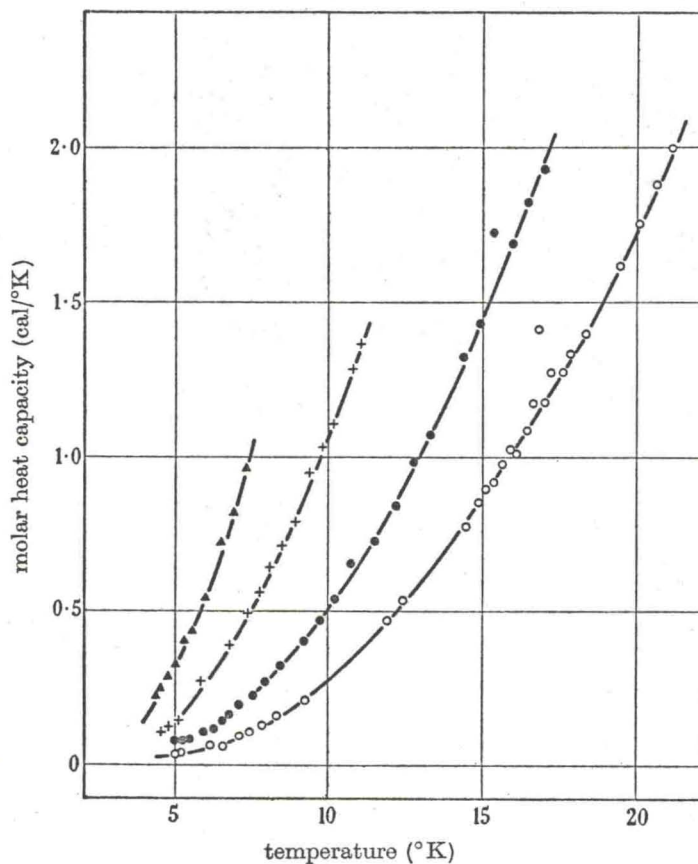


FIGURE 6. The molar-heat capacities of solid helium.
O, 10.6 ml.; ●, 11.7 ml.; +, 13.0 ml.; ▲, 14.4 ml.

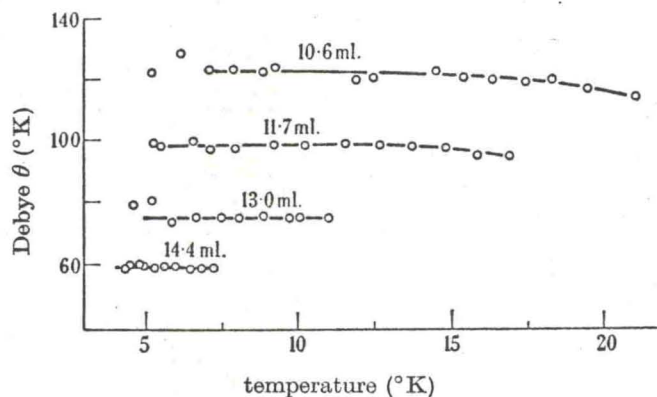


FIGURE 7. The Debye θ 's of solid helium at four molar volumes.