between 1 and 2. Thus, c for argon is ***eqx equal to 1.16 /11/, for helium 1.554 /12/, and for nitrogen 1.775 /11/. At c = 1 the melting temperature should rise linearly with pressure. As c increases the melting curves T - P deviate more and more from a straight line in the direction of the pressure axis. Simon /13/ attempted to apply equation (1) to the melting of alkaline metals, making use of the data of Bridgman /1/. It turned out that for these metals the quantity c **equant**x*** is from 3.8 to 4.8. Moreover, all attempts to compute the magnitude of c on the basis of various equations of state of liquids and solid bodies (cf. /14÷16/) led to 1 < c < 1.5. Apparently, Simon's equation may ***e only be considered empirical for the case of the melting of metals.

Figure 3. The dependence of the melting temperature of copper on pressure. The points represent the results of individual tests

It may be hoped that further accumulation of experimental data on the melting of metals under pressure will make it possible to give a theoretical explanation of the observed regularities and relate them to the EXEMENTAL STRUCTURAL Characteristics of the metals.