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The Temperature Dependence of the Resistivity of Liquid Alkali Metals at Constant Volume*

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Abstract

The temperature dependence of the resistivity of liquid alkali metals at constant volume and at constant pressure was measured. The residual resistance obtained by extrapolating the resistivity curve plotted at constant volume against temperature to absolute zero is small for liquid Na, and becomes larger proceeding to the heavier alkali metals. The temperature dependence of the resistivity at constant volume and at constant pressure is discussed in the term of the temperature variation of the correlation function $\alpha(K)$.

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