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## Structure of Liquid Antimony by Neutron Diffraction\*

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*The Research Institute for Iron, Steel and Other Metals***Abstract**

Neutron diffraction patterns from liquid antimony have been obtained at 660 and 800°C. The structure factors are nearly independent of temperature. Comparing the results with the structure of liquid bismuth and the hard sphere model the existence of two structure types in liquid antimony previously indicated seems to be ambiguous. The electrical resistivity was calculated using Ziman's theory and compared with experimental data. From this in the case of liquid antimony the invalidity of the Born approximation in Ziman's theory was found.

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