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ELECTRICAL RESISTANCE OF THIN METALLIC FILMS*John M. Boler, Edith Townes and Duane Roller, *Norman, Oklahoma**(Abstract)*

The work reported in Vol. 15 (1935), p. 91 has been continued. Mercury has been found to be different from cadmium in that satisfactory films cannot be formed on a glass plate cooled by liquid air. The granular-crystalline theory of film structure predicts this failure for, according to it, the plate temperature should be close to that of liquid hydrogen if films of a low-boiling-point metal like mercury are to be formed. Experiments with alkali metals are in progress.

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