

Abstract Submitted
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Pressure-induced Metallization of Carbon Disulfide¹ RAN-
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tute for Shock Physics, Dept. of Chemistry, Washington State University, Pullman,
WA 99164 — We will report high pressure electrical resistivity measurements on
solid CS₂ in diamond anvil cell to 60GPa. The result shows a steady decrease in
resistivity to that of metal at around 55GPa. Its visual appearance of CS₂ also sup-
ports its insulator-metal transition: the initially transparent CS₂ becomes opaque
and eventually reflective with increasing pressure. We will also present a plausible
mechanism for the observed metallization.

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