Abstract Submitted
for the 4CF07 Meeting of
The American Physical Society

Resistivity of Kapton E at Intermediate Time Scales Following High-Energy Electron Irradiation STEVEN HART, J.R. DENNISON, JERI BRUNSON, JODIE GILLESPIE, Utah State University — Kapton E, a highly-insulating polymer, exhibits a characteristic DC resistivity. The resistivity of Kapton E is altered due to the effects of high energy electron irradiation. Measurements of resistivity were made several days following the electron bombardment. These values are discussed in terms of hopping conductivity theory and traps with intermediate-scale lifetimes. Additional anomalous behavior is also considered.

Steven Hart
Utah State University

Date submitted: 14 Sep 2007 Electronic form version 1.4