

The Joint APS/AAPT 1997 Meeting Program

18-21 April 1997
Washington, DC

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Session E15 - Postdeadline Poster Session.

POSTER session, Saturday morning, April 19

Congressional Hall, Renaissance

[E15.03] [Critical minima in elastic electron scattering by argon](#)

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Two critical points in elastic electron scattering by argon where the differential cross section (DCS) attains its smallest values were

experimentally determined. These minima are important because they are a sensitive test of the validity of experimental procedures, and are used to verify theoretical predictions of DCS shapes and magnitudes, and prediction of the polarization of scattered electrons. Normalized DCS were determined by measuring the angular distributions of elastically scattered electrons at twelve incident energies from 10 to 100 eV and in the angular range from 20° to 150° . Results are compared with the available experimental and theoretical data. In addition, integral, momentum-transfer, and viscosity cross sections were determined by numerical integration of the measured DCS extrapolated to 0° and to 180° .

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