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Measurement of Absolute Electron Excitation Cross Sections for the 2s --> 2p Transition in O5+ Using Electron Energy Loss

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Experimental cross sections will be reported for the optically-allowed 2s --> 2p transition in O5+. This transition is seen in optical spectra of stellar and solar atmospheres using NASAs Hubble, SOHO, and EUVE telescopes. Measurements will cover the center-of-mass energy range 11 eV (below threshold), through 11.98 eV (threshold), to 17 eV. Use is made of the electron energy-loss method, using merged beams [1,2]. Comparison will be given with new multistate R-Matrix calculations, and with other experimental measurements in the threshold region. This work was carried out at JPL, and supported through the U. Conn. NASA/EPSCOR Program and through NASA - JPL agreement.

[1] J. B. Greenwood, et al. Phys. Rev. A 59, 1348 (1999).

[2] A. Chutjian, et al., in Applications of Accelerators in Research and Industry (CP 475, Am. Inst. Phys., NY, 1999), p. 881.

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