

# ABSOLUTE CROSS SECTIONS FOR NEAR-THRESHOLD ELECTRON-IMPACT EXCITATION OF THE $2S\ ^2S \rightarrow 2P\ ^2P$ TRANSITION IN $C^{3+}$ (Ref. 1)

*M. E. Bannister, Y.-S. Chung,<sup>2</sup> N. Djurić,<sup>3</sup> B. Wallbank,<sup>4</sup> O. Voitke,<sup>3</sup>  
S. Zhou,<sup>3</sup> G. H. Dunn,<sup>3</sup> and A.C.H. Smith<sup>5</sup>*

Absolute total cross sections for electron-impact excitation of the  $2s\ ^2S \rightarrow 2p\ ^2P$  transition in  $C^{3+}$  were measured from 7.35 eV to 8.45 eV using the merged electron-ion beams energy-loss technique. The results settle the discrepancy between two previous experiments using the crossed-beams fluorescence method, being in very good agreement with the older results<sup>6</sup> but less so with the more recent ones.<sup>7</sup> The present measurements are also in good agreement with unitarized Coulomb-Born and close-coupling calculations.

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  2. Chungnam National University, Daejeon, S. Korea.
  3. JILA, University of Colorado and National Institute of Standards and Technology, Boulder, CO.
  4. St. Francis Xavier University, Antigonish, Nova Scotia, Canada.
  5. University College London, London, UK.
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