



Canadian Association
of Physicists

Association canadienne
des physiciens et physiciennes

Contribution ID: 2015 Type: **Poster Competition (Graduate Student) / Compétition affiche (Étudiant(e) 2e ou 3e cycle)**

POS-2 Electron Impact Excitation of Adenine in the VUV.

Tuesday 12 June 2018 18:02 (2 minutes)

Dissociative excitation of adenine ($C_5H_5N_5$) into excited atomic fragments has been studied in the electron impact energy range from threshold to 400 eV. A crossed beam system coupled to a vacuum ultraviolet (VUV) monochromator is used to study emissions in the wavelength range from 90 to 200 nm. The beam of adenine vapor from a stainless steel oven is crossed at right angles by the electron beam and the resultant VUV radiation is detected in a mutually orthogonal direction. Excitation of the H Lyman series, the strongest features in the spectrum, is considered in detail.

Financial support from NSERC, Canada, is gratefully acknowledged.

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Session Classification: DAMOPC Poster Session & Finals: Poster Competition and Mingle Session with Industry Partners (8) / Employers | Session d'affiches DPAMPC et finales: Concours d'affiches et rencontres avec partenaires industriels et employeurs (8)

Track Classification: Division of Atomic, Molecular and Optical Physics, Canada / Division de la physique atomique, moléculaire et photonique, Canada (DAMOPC-DPAMPC)