

Abstract Submitted  
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**Dissociative Excitation of Adenine by Electron Impact.**<sup>1</sup> J WILLIAM MCCONKEY, JOSHUAH TROCCHI, JEFFERY DECH, WLADEK KEDZIERSKI, University of Windsor — Dissociative excitation of adenine ( $C_6H_5NH_2$ ) into excited atomic fragments has been studied in the electron impact energy range from threshold to 300 eV. A crossed beam system coupled to a vacuum ultraviolet (VUV) monochromator is used to study emissions in the wavelength range from 110 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 UV radiation is detected in a mutually orthogonal direction. The strongest feature in the spectrum is H Lyman- $\alpha$ .

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