

Abstract Submitted
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N(²P) Production in electron-N₂ Collisions.¹ J WILLIAM MC-
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A unique detector which is selectively sensitive to low energy metastable atoms, is
used to study the production of ground configuration N(²P) atoms following col-
lisions of low energy (0-300 eV) electrons with molecular nitrogen. Time-of-flight
detection has allowed identification of at least two dissociation channels with signif-
icant differences in released kinetic energy of the fragments. Excitation probability
measurements will be presented as a function of incident electron energy and near-
threshold data will be used to help identify possible excitation channels.

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