

Energetics and metastability of the adenine dication observed in proton-adenine collisions

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BERNARD J Relative partial cross-sections and target fragmentation in ion-adenine collisions at 56 keV
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS 245: 103 2006

BREDY R Fragmentation of adenine induced by collision with slow F₂⁺ ions
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS 235: 392 2005

COUPIER B Inelastic interactions of protons and electrons with biologically relevant molecules
EUROPEAN PHYSICAL JOURNAL D 20: 459 2002

DECONIHOUT B Improvement of the detection efficiency of channel plate electron multiplier for atom probe application
APPLIED SURFACE SCIENCE 94: 422 1996

DEVRIES J C_q⁺-induced excitation and fragmentation of uracil: effects of the projectile electronic structure
JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS 35: 4373 2002

DEVRIES J PHYS SCR T 110: 336 2004

DIAZ TENDERO S Coulomb stability limit of highly charged C-60(q⁺) fullerenes
PHYSICAL REVIEW LETTERS 95: ARTN 013401 2005

ELAND JHD 2ND-ORDER SPACE FOCUSING IN 2-FIELD TIME-OF-FLIGHT MASS SPECTROMETERS
MEASUREMENT SCIENCE & TECHNOLOGY 4: 1522 1993

ELAND JHD THE DYNAMICS OF 3-BODY DISSOCIATIONS OF DICATIONS STUDIED BY THE TRIPLE COINCIDENCE TECHNIQUE
PEPIICO MOLECULAR PHYSICS 61: 725 1987

FIELD TA LIFETIMES OF METASTABLE MOLECULAR DOUBLY-CHARGED IONS
CHEMICAL PHYSICS LETTERS 211: 436 1993

GRAYWEALE AA Transition-state theory model for the diffusion coefficients of small penetrants in glassy polymers
MACROMOLECULES 30: 7296 1997

HANSEN K Thermal electron emission from the hot electronic subsystem of vibrationally cold C-60
JOURNAL OF CHEMICAL PHYSICS 119: 2513 2003

HOCHLAF M Theoretical study of the electronic states of CO₂⁺⁺
JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS 31: 2163 1998

IMHOFF M Identification of ion fragments produced from thymine and deuterated thymine by low energy ion impact in films and electron impact in the gas phase
INTERNATIONAL JOURNAL OF MASS SPECTROMETRY 245: 68 2005

KRAFT G What we can learn from heavy ion therapy for radioprotection in space
PHYSICA MEDICA 17: 13 2001

KRAFT G Tumour therapy and track structure
RADIATION AND ENVIRONMENTAL BIOPHYSICS 38: 229 1999

LACOMBE S DNA strand breaks induced by low keV energy heavy ions
PHYSICS IN MEDICINE AND BIOLOGY 49: N65 2004

LEBIUS H Delayed fission of highly charged C-60 molecules
PHYSICA SCRIPTA 80: 197 1999

MICHAEL BD Molecular biology - A sting in the tail of electron tracks
SCIENCE 287: 1603 2000

MORETTOCAPELLE P Interaction of protons with the C-60 molecule: Calculation of deposited energies and electronic stopping cross sections ($v \leq 5$ au)
JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS 34: L611 2001

MORETTOCAPELLE P Fragmentation of CO₂ into C⁺⁺O⁺⁺O, in collisions with protons
JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS 33: L539 2000

REINKOSTER A PHYS REV A 64: 23201 2001

SCHMIDT MW GENERAL ATOMIC AND MOLECULAR ELECTRONIC-STRUCTURE SYSTEM
JOURNAL OF COMPUTATIONAL CHEMISTRY 14: 1347 1993

THOMPSON M PLANARIA SOFTWARE