

LIST OF PUBLICATIONS

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- *Double differential distributions of e-emission in ionization of N₂ by 3, 4 and 5 keV electron impact*, **Madhusree Roy Chowdhury**, Dhaval Chauhan, Chetan G. Limbachiya, Karoly Tórkési, Christophe Champion, P. F. Weck and Lokesh C. Tribedi, (*accepted in J. Phys. B: At. Mol. Opt. Phys.*) (2020).
- *Radiobiological effectiveness of iodouracil and the influence of atomic giant resonance*, Anuvab Mandal, **Madhusree Roy Chowdhury**, Chandan Bagdia, Juan M. Monti, Roberto D. Rivarola, P. F. Weck and Lokesh C. Tribedi, **Phys. Rev. A** **102**, 062811 (2020).
- *Coherent electron emission from O₂ in collisions with fast electrons*, **Madhusree Roy Chowdhury**, Carlos R. Stia, Carmen A. Tachino, Omar A. Fojón, Roberto D. Rivarola and Lokesh C. Tribedi, **Eur. Phys. J. D** **71**, 218 (2017).
- *Electron impact ionization of O₂ and the interference effect from forward–backward asymmetry*, **Madhusree Roy Chowdhury**, and Lokesh C. Tribedi, **J. Phys. B: At. Mol. Opt. Phys.** **50**, 155201 (2017).
- *Ionization of N₂ in collisions with fast electrons: Evidence of an interference effect*, **Madhusree Roy Chowdhury**, C. R. Stia, C. A. Tachino, O. A. Fojon, Roberto D. Rivarola and Lokesh C. Tribedi, **Phys. Rev. A** **94**, 052703 (2016).
- *Differential electron emission from biomolecules under fast ion impact : Enhancement in electron emission*, **Madhusree Roy Chowdhury et. al.** (*to be submitted*).
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Not related to thesis

- *Electron emission from CH_4 molecule in collisions with fast bare C ions*, Anuvab Mandal, Chandan Bagdia, **Madhusree Roy Chowdhury**, Shamik Bhattacharjee, Deepankar Misra, Juan M. Monti, Roberto D. Rivarola and Lokesh C. Tribedi, **Phys. Rev. A** **101**, 062708 (2020).
- *Electron emission in ionization of adenine molecule induced by 5 MeV/u bare C ions*, Shamik Bhattacharjee, Anuvab Mandal, **Madhusree Roy Chowdhury**, Chandan Bagdia, Juan M. Monti, Roberto D. Rivarola and Lokesh C Tribedi **Eur. Phys. J. D** **74**, 163 (2020).
- *Proton capture resonant state of ^{15}O at 7556 keV*, Sathi Sharma, Arkabrata Gupta, **M. Roy Chowdhury**, A. Mandal, A. Bisoi, V. Nanal, L. C. Tribedi, and M. Saha Sarkar, **Phys. Rev. C** **102**, 024308 (2020).
- *Study of $^{14}N(p,\gamma)^{15}O$ resonance reaction at $E_p^{lab} = 278$ keV*, Sathi Sharma, A. Gupta, S. Das, **M. Roy Chowdhury**, A. Mandal, A. Bisoi, V. Nanal, L.C. Tribedi, S. Sarkar and M. Saha Sarkar, **EPJ Web of Conferences** **227**, 02011 (2020).
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- *Is-Is electron transfer in collisions of fast C and O ions with adenine*, Chandan Bagdia, S. Bhattacharjee, **M. Roy Chowdhury**, A. Mandal, G. Lapicki and Lokesh C. Tribedi **Nucl. Instr. Meth. Phys. Res. B** **462**, 68 (2020).
- *K-K electron capture from adenine and CO_2 molecule by fast carbon ions using KLL-Auger electron technique*, Chandan Bagdia, Shamik Bhattacharjee, **Madhusree Roy Chowdhury**, Anuvab Mandal, Gregory Lapicki, Lokesh C. Tribedi **X-Ray Spectrometry** **49**, 160 (2020).
- *Bare-carbon-ion-impact electron emission from adenine molecules: Differential and total cross-section measurements*, Shamik Bhattacharjee, Chandan Bagdia, **Madhusree Roy Chowdhury**, J M Monti, Roberto D Rivarola and Lokesh C. Tribedi **Phys. Rev. A** **100**, 012703 (2019).
- *M X-ray production cross-sections in ^{79}Au and ^{83}Bi induced by 50–300 keV protons* Anuvab Mandal, Shehla, **Madhusree Roy Chowdhury**, Ajay Kumar, Sanjiv Puri and Lokesh C. Tribedi **Eur. Phys. J. D** **72**, 120 (2018).

- *Low-energy proton induced M X-ray production cross sections for $_{70}\text{Yb}$, $_{81}\text{Tl}$ and $_{82}\text{Pb}$* , Shehla, A. Mandal, Ajay Kumar, **M. Roy Chowdhury**, Sanjiv Puri and L.C. Tribedi **Nucl. Instr. Meth. Phys. Res. B** **426**, 34 (2018).
- *Energy and angular distribution of electrons ejected from water by the impact of fast O^{8+} ion beams*, Shamik Bhattacharjee, Chandan Bagdia, **Madhusree Roy Chowdhury**, J.M. Monti, R.D. Rivarola and L.C. Tribedi **Eur. Phys. J. D** **72**, 15 (2018).
- *Double differential distribution of electron emission in the ionization of water molecules by fast bare oxygen ions*, Shamik Bhattacharjee, Shubhadeep Biswas, Chandan Bagdia, **Madhusree Roy Chowdhury**, Saikat Nandi, Deepankar Misra, J M Monti, C A Tachino, R D Rivarola, C Champion and Lokesh C Tribedi **J. Phys. B: At. Mol. Opt. Phys.** **49**, 065202 (2016).