

Abstract Submitted  
for the DAMOP11 Meeting of  
The American Physical Society

**Inner-Shell Ionization of Atoms ( $Z=6$  to  $92$ ) by electron**<sup>1</sup> BIDHAN SAHA, Department of Physics, Florida A&M University, Tallahassee, FL-32307 — The electron impact ionization (EII) is of fundamental importance in understanding the physics of the collision process involving many-electron. Accurate EII cross sections (EIICS) are essential in many fields, ranging from astrophysics to molecular physics, to plasma physics for different targets over a wide range of energies. Four easy to handle models, such as the MBELL, XCVTS, GKLW and MUIBED [1], are used to evaluate EIICS. A few selected targets are considered to report their predictions and compared them with experimental EIICS data and other theoretical findings at the conference.

[1] A. K. F. Haque, M. A. Uddin, M. Shahjahan, M. R. Talukder, A. K. Basak, B. C. Saha, in *Advances in Quantum Chemistry*, Vol **61**, 2011 (in press).

<sup>1</sup>Supported by NSF-CREST project (grant #0630370).

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Date submitted: 02 Feb 2011

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