

Recent Database Activities of CRAAMD

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China Research Association of Atomic and Molecular Data (CRAAMD) is constituted of about ten groups from universities and Institutes and works on collecting, producing and compiling Atomic and Molecular data (AMdata), which are needed from the related fields of astrophysics, Inertial Confinement Fusion (ICF) and X-ray Laser Research etc.

Recent progress of CRAAMD will be reviewed in the talk, in particular on the CRAAMD activities and the AM data production in the past two years. Extensive AMdata have been produced, compiled and assessed, including atomic and molecular spectroscopy, electron collisions with atoms and molecules, heavy particles collisions with atoms and molecules, atomic and molecular opacity, stopping power of plasma and so on.

I will also review the recent progresses of the AM group in Institute of Applied Physics and Computational Mathematics (IAPCM), mainly on the heavy particles collisions studies in collaboration with the group of Xinwen Ma from the Institute of modern physics, Chinese Academy of Sciences.