

Recent Progress of Atomic and Molecular Physics for China Research Association of Atomic and Molecular Data

Wednesday 1 October 2025 14:30 (30 minutes)

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.

In the first part of this talk, I will introduce recent activities of China Research Association of Atomic and Molecular Data in the past five years. Then I will present some recent progress of our group in IAPCM on fundamental atomic and molecular physics researches, including the atomic processes in plasma environment, an unexpectedly large quantum interference in the dielectronic and radiative recombination of Be-like highly charged ions, and new modelling of the stopping power of α particles to consider the deflection effects due to multiple scatterings.

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