

Experimental potentials for atomic data for fusion research and astrophysics at Lanzhou

X. Ma

Institute of Modern Physics, Chinese Academy of Sciences, Lanzhou, China

In this report I will first introduce the experimental facilities for atomic ions/molecular ions colliding with atoms and molecules. The facilities cover accelerator such as high energy storage rings, 320 kV platform for multiple disciplinary research with highly charged ions, very low energy EBIS, and experimental setups for differential data measurements in ion-atom collisions. Second, I will present some typical results obtained at these facilities related to the atomic data for fusion research and astrophysics. Last but not least, I will give a brief description of the near future working plans concerning atomic ion collisions investigations and collective collection of data for fusion research and astrophysics.