

Atomic and molecular collision physics at GANIL

Since about 35 years, the community of atomic and molecular collision physics has widely used the GANIL facility for countless experiments performed within numerous national and international collaborations. Recent reviews of the advances achieved at GANIL in this field are available here: X. Fléhard et al JPCS 629 (2015) 012001 and H. Zettergren JPCS 629 (2015) 012003. These experiments have been focusing on the study of the interaction of ions with dilute matter ranging from isolated atoms and molecules to molecular clusters, as well as nanoparticles nowadays. Thanks to the wide range of projectile energies and species available on the different beam lines of the GANIL facility, elementary processes such as electron capture, ionization and excitation have been extensively studied. Since the last years, the relaxation processes of the collision partners after the collision have been another specific source of interest.

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Classification de Session: Contribution to the future of GANIL