

X-ray spectroscopy of slow Xe54+ + Xe collisions

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The experimental study of slow Xe54+ + Xe collisions has been defined in the “Physics book: CRYRING@ESR” as an intermediate milestone on the path towards heavy quasi-molecular collision in supercritical fields. In our recently published investigation of Xe54+ + Xe collisions at 30 and 15 MeV/u performed at the ESR, we learned valuable lessons for the experimental feasibility of such studies. As a next step, we propose to perform a high-resolution x-ray spectroscopy experiment at the CRYRING gas-jet target using bare Xe54+ injected from ESR at ~12 MeV/u.

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