Abstract Submitted
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Energy dependent relative charge transfer cross sections of Cs^+ + Rb(5s, 5p)[1] HAI NGUYEN, DARREN GETTS, University of Mary Washington, XAVIER FLECHARD, Laboratoire de Physique Corpusculaire de CAEN, RICHARD BREDY, Laboratoire de Spectrométrie Ionique et Moléculaire, BRETT DEPAOLA, Kansas State University — Magneto optical trap recoil ion momentum spectroscopy (MOTRIMS) is a well known technique with excellent resolution. Its uses have been demonstrated in various ion atoms collision experiments as well as in probing various target excitation schemes. Here MOTRIMS is used to perform energy-dependent kinematically complete experiments of charge exchange cross sections for various channels at various projectile energies between $Cs^+ + {}^{87}Rb(5s, 5p)$. The experimental technique and data from this ion-atom collision charge exchange process are presented.

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