Beitrag ID: **23** Typ: **nicht angegeben**

# Charge exchange at low collision energies

*Mittwoch, 1. Juni 2022 16:45 (5 Minuten)*

We propose to measure x-ray fluorescence following charge exchange between bare $Xe^{54+}$ ions and different gas targets at ultra-low collision energies at HITRAP. By detecting fluorescence in coinicidence with projectile ions, and recording ion time-of-flight, reaction channels can be separated. This will provide charge-exchange data for an energy regime inaccesible in storage ring setups, and complementing previous as well as future measurements, e.g. at the CRYRING internal gas target. It will allow more in-depth benchmarks of charge-exchange models.

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**Sitzung Einordnung:** HITRAP