



Contribution ID : 28

Type : **not specified**

Photionization of Kr^+ with synchrotron radiation.

Friday, 6 May 2011 12:45 (0:30)

Abstract content

combination of an ion-beam end station with synchrotron radiation in the energy range of 23 to 32 electron volts was used to measure a high resolution ion-yield spectrum of the ionization of single charged into double charged Kr ions. Several atomic states are resolved and identified. In addition, the absolute total cross section was measured.

This particular system is of relevance in astrophysics and, from a fundamental point of view, it can be used as a benchmark to prove state of the art quantum mechanical calculations. If time permits, results on the photionization of a simple molecular system will be presented too.

Summary

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