

Dielectronic and trielectronic recombination in sulfur ions

W. Biela-Nowaczyk^{1*}, P. Amaro², C. Brandau^{3,4}, S. Fuchs^{4,5}, F. Grilo², M. Lestinsky³, E. B. Menz^{3,6}, S. Schippers^{4,5}, T. Stöhlker^{3,6}, A. Warczak¹

¹Institute of Physics, Jagiellonian University, Poland

²Laboratory of Instrumentation, Biomedical Engineering and Radiation Physics (LIBPhys-UNL), NOVA School of Science and Technology, NOVA University Lisbon, 2829-516 Caparica, Portugal

³GSI Helmholtzzentrum für Schwerionenforschung, 64291 Darmstadt, Germany

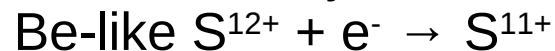
⁴Physikalisches Institut, Justus-Liebig-Universität Gießen, 35392 Gießen, Germany

⁵Helmholtz Forschungsakademie Hessen für FAIR, Campus Gießen, 35392 Gießen, Germany

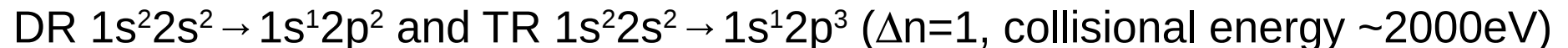
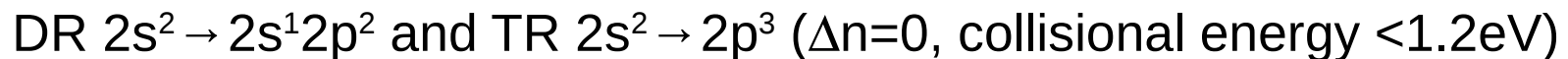
⁶Helmholtz Institute Jena, 07743 Jena, Germany

With use of collisional spectroscopy at the electron cooler and with a ions from **local ion source** we would like to investigate DR and intrashell TR processes.

Mainly:



Here, resonances:



**Beam energy ~14 MeV/u, intensity: ~10⁷ ions, count rate ~0.7kHz,
Number of shots ~25**