## Symposium Precision spectroscopy of highly ionized matter (SYPS)

jointly organized by the Atomic Physics Division (A), the Mass Spectrometry Division (MS), and the Plasma Physics Division (P)

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The symposium for "Precision spectroscopy of highly ionized matter" brings together three separate fields: plasma physics, atomic physics, and mass spectrometry. Six well-known representatives from these communities have been invited to give overviews of their respective research areas, highlighting progress in high-precision spectroscopic methods. These sophisticated techniques are the key to probing highly ionized matter in various forms, including: slow and cold highly charged ions in traps; fast and relativistic highly charged ions in EBITs and storage rings; and hot, dense plasmas generated by high-intensity lasers.

## Overview of Invited Talks and Sessions

(lecture room A 001)

## **Invited Talks**

SYPS 1.1	Fr	11:00-11:30	A 001	Status of QED tests in heavy highly charged ions — •PAUL INDELICATO
SYPS 1.2	$\mathbf{Fr}$	11:30-12:00	A 001	Penning trap mass spectrometry with highly charged ions — •SZILARD
GVDC 1 9	En	19.00 19.20	1 001	NAGY Diagnostic of Hot Dange Diagnos by Advanced XUV and X roy Spee
SYPS 1.3	$\mathbf{Fr}$	12:00-12:30	A 001	Diagnostic of Hot Dense Plasmas by Advanced XUV and X-ray Spec-
SYPS 1.4	$\mathbf{Fr}$	12:30-13:00	A 001	troscopy — •INGO USCHMANN
5115 1.4	гг	12:50-15:00	A 001	Measurements of masses and beta-lifetimes of stored exotic highly
	_			charged ions — •FRITZ BOSCH
SYPS $2.1$	$\mathbf{Fr}$	14:00-14:30	A 001	Exciting and ionizing trapped highly charged ions with electrons and
				photons in an EBIT — • José R. Crespo Lopéz-Urrutia
SYPS $2.2$	$\mathbf{Fr}$	14:30-15:00	A 001	Precision x-ray spectroscopy of intense laser-plasma interaction exper-
				$iments - \bullet Nigel Woolsey$

## Sessions

SYPS 1.1–1.4	$\mathbf{Fr}$	11:00-13:00	A 001	Precision spectroscopy of highly ionized matter I
SYPS $2.1-2.2$	$\mathbf{Fr}$	14:00-15:00	A 001	Precision spectroscopy of highly ionized matter II