

# Symposium Classical and Quantum Structured Light (SYSL)

jointly organised by  
the Atomic Physics Division (A) and  
the Quantum Optics and Photonics Division (Q)

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Considerable interest in the topic of structured light has emerged in recent years. Owing to its unusual properties, such as phase singularities, highly inhomogeneous intensity profiles, and complex polarization textures, structured light has found applications in various fields of research, from information transfer and tweezing to quantum metrology and operation of atomic clock transitions.

## Overview of Invited Talks and Sessions

(Lecture hall P 1)

### Invited Talks

SYSL 1.1	Mon	17:00–17:30	P 1	<b>Structured-light-matter interaction for quantum cryptography and nanoscale modal control</b> — •EILEEN OTTE, ASMA FALLAH, WILLIAM A. JARRETT, ALEXANDER D. WHITE, GIOVANNI SCURI, SEUNGJUN EUN, NICHOLAS A. GUESKEN, HOSSEIN TAGHINEJAD, JELENA VUCKOVIC, MARK L. BRONGERSMA
SYSL 1.2	Mon	17:30–18:00	P 1	<b>Attosecond Structured Light Pulses with Topology and Polarization Textures</b> — •CARLOS HERNANDEZ-GARCIA
SYSL 1.3	Mon	18:00–18:30	P 1	<b>Structured light for the creation of squeezed multiplets to encode quantum information in trapped ions</b> — •CORINA RÉVORA, CHRISTIAN TOMÁS SCHMIEGELOW, JUAN PABLO PAZ
SYSL 1.4	Mon	18:30–19:00	P 1	<b>Atomic Magnetometry Employing Vector Light Beams</b> — •RIAAAN PHILIPP SCHMIDT, RICHARD AGUIAR MADURO, ANTON PESHKOV, SONJA FRANKE-ARNOLD, ANDREY SURZHYKOV

### Sessions

SYSL 1.1–1.4	Mon	17:00–19:00	P 1	<b>Classical and Quantum Structured Light</b>
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