

# Advanced Concepts for High Peak Power Ultrafast Lasers (SYUL)

jointly organized by  
the Quantum Optics and Photonics Division (Q),  
the Atomic Physics Division (A), and  
the Short Time-scale Physics Division (K).

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## Overview of Invited Talks and Sessions

(Lecture room e415)

### Invited Talks

SYUL 1.1	Fri	11:00–11:50	e415	<b>Exawatt laser concepts for extreme field science</b> — •CHRIS BARTY
SYUL 1.2	Fri	11:50–12:20	e415	<b>Generation of short pulses with ultra-high temporal contrast at the PHELIX petawatt facility</b> — •VINCENT BAGNOUD
SYUL 1.3	Fri	12:20–12:50	e415	<b>Petawatt lasers for particle acceleration at HZDR Dresden</b> — •ULRICH SCHRAMM
SYUL 1.4	Fri	12:50–13:20	e415	<b>High-intensity few-cycle pulses with ultrahigh temporal contrast</b> — •STEFAN KARSCH, ALEXANDER KESSEL, CHRISTOPH SKROBOL, MATHIAS KRÜGER, CHRISTOPH WANDT, SANDRO KLINGEBIEL, OLGA LYSOV, IZHAR AHMAD, SERGEI TRUSHIN, VYACHESLAV LESHCHENKO, ZSUZSANNA MAJOR, FERENC KRAUSZ
SYUL 2.1	Fri	14:00–14:30	e415	<b>Coherent Combination of Ultrafast Fiber Lasers</b> — •JENS LIMPERT
SYUL 2.2	Fri	14:30–15:00	e415	<b>Cryogenic multipass amplifiers for high peak and average power ultrafast lasers</b> — •LUIS E. ZAPATA
SYUL 2.3	Fri	15:00–15:30	e415	<b>Multi-TW infrared laser using Frequency domain Optical Parametric Amplification</b> — •BRUNO E. SCHMIDT, PHILIPPE LASSONDE, GUILMOT ERNOTTE, MATHIEU GIGUERE, NICOLAS THIRE, ANTOINE LARAMEE, HEIDE IBRAHIM, FRANCOIS LEGARE

### Sessions

SYUL 1.1–1.4	Fri	11:00–13:20	e415	<b>Advanced Concepts for High Peak Power Ultrafast Lasers I</b>
SYUL 2.1–2.3	Fri	14:00–15:30	e415	<b>Advanced Concepts for High Peak Power Ultrafast Lasers II</b>