

Day 4 - Thursday, 16/10/2025 - Diffractive and Meta-optics				
Start	Stop	Title	Speaker	Affiliation
09:00	09:10	Introduction	R. Berlich	ESA
Session #3-1		Component Design and Analysis I	Session Chairs: TBD	
09:10	09:30	Ultra-Wide metalens design: from ray to wave approach for a complete characterization of the metalens	Daniela Ponce	Synopsys
09:30	09:50	Enabling fast and accurate ray tracing through metasurfaces to improve optical design with flat optics	Sébastien Heron	Thales RT
09:50	10:10	Meta-Structured Telescope for Laser Communication	Thomas Flügel-Paul	Fraunhofer IOF
10:10	10:30	Metasurfaces for wave-front modulation from optical to short-wave infrared frequencies	S. I. Falckenheiner	TNO
10:30	11:10	Coffee break		
Session #3-2		Component Design and Analysis II	Session Chairs: TBD	
11:10	11:30	Topology optimization of blazed metasurface gratings for high-efficiency spectrographs in space	Simon Ans	LAM
11:30	11:50	Design of efficient immersed metagratings using an evolutionary algorithm	Dhwanil Patel	Leiden University
11:50	12:10	Demonstration of ultra-high reflection gratings using monolithic Meta surfaces	Martin Heusinger	Fraunhofer IOF
12:10	12:30	Metasurface-based polarization scrambler for space imaging	E. Hartmann	Institut Fresnel
12:30	13:00	Discussion and session wrap up		
13:00	14:00	Lunch		
Session #3-3		Component Manufacturing and Testing I	Session Chairs: TBD	
14:00	14:20	Wavefront shaping with 2D excitonic metasurfaces	Ludovica Guarneri	University of Amsterdam
14:20	14:40	Optical performance and space environment stress testing of silicon-on-sapphire meta-optics lenses for SWIR imaging	Vesselin Vassilev	LaboraXpert
14:40	15:00	Photonic lantern characterisation with digital off-axis holography	Adam K. Taras	University of Sidney
15:00	15:20	Meta-optical sensor head for the Einstein Telescope	Antonia C. Klein	Fraunhofer IOF
15:00	15:40	Coffee break		
Session #3-3		Component Manufacturing and Testing II	Session Chairs: TBD	
15:40	16:00	Development, production and space qualification of patterned liquid-crystal coronagraphs for high-contrast imaging of exoplanets	Jeroen Rietjens	SRON
16:00	16:20	Nano-printing coronagraphs for highcontrast imaging	Elena Tonucci	Leiden University
16:20	16:50	Discussion and session wrap up		
Session #3-4		Instrument Concepts and Design I	Session Chairs: TBD	
16:50	17:10	Compact high resolution imaging with optical interferometry	Noé Hirschauer	Université Paris-Saclay
17:10	17:30	Results CGI VA validation of the MSPI technology	Vitalii Khodnevych	IRT Saint Exupery
17:30	17:50	X-ray interferometry with silicon pore optics	Aditya Garde	TU Delft
17:50	19:30	Reception		

Day 5 - Friday 17/10/2025 - Diffractive and Meta-optics				
Start	Stop	Title	Speaker	Affiliation
Session #3-6		Instrument Concepts and Design II	Session Chairs: TBD	
09:00	09:20	Camera calibration with diffractive optial elements for space missions	Denis Griessbach	DLR
09:20	09:40	Diffraction grating whit circular grooves: new paradigm for EUV astrophysical observations	Fabio Frassetto	CNR
09:40	10:00	Hyperspectral instruments based on diffractive optics under development at Amos	Gregory P. Lousberg	AMOS
10:00	10:40	Coffee break		
Session #3-7		Instrument Concepts and Design III	Session Chairs: TBD	
10:40	11:00	Applications of scalar metasurfaces for high-contrast imaging with future space telescopes	Lorenzo König	California Institute of Technology
11:00	11:20	Metasurface-Enabled Adaptive Optics at the fundamental limit for Exoplanet Imaging	Sebastiaan Y. Haffert	Leiden University
11:20	11:40	Computational spectropolarimeter with asymmetric photonic crystals	Irina Malysheva	SRON
11:40	12:10	Discussion and wrap-up		
12:10	12:20	Workshop wrap-up		