

18.10.	Workshop INNOVATIVE OPTICAL COMPONENTS AND TECHNICAL OPTICS			Workshop QUANTUM OPTICS AND SECURE OPTICAL DATA TRANSMISSION			START-UPS AN ALTERNATIVE CAREER PATH IN PHOTONICS			HOW TO ADDRESS INTERNATIONAL PHOTONICS MARKETS AND START R&D PROJECTS											
	Newton-Kabinett			Einstein-Kabinett			Humboldt-Universität zu Berlin, Erwin-Schrödinger Zentrum, Conference room 0119, Rudower Chaussee 26														
09:00										Pasteur-Kabinett											
09:30	Registrierung/Kaffee/Ausstellung			Registrierung/Kaffee/Ausstellung						Registrierung/Kaffee/Ausstellung			09:00								
09:45	Einführung	Dr. Frank Lerch	OpTecBB							Einführung			Dr. Frank Lerch	OpTecBB e.V.	09:30						
10:00	Innovative optical components and sub-systems for space and laser applications	Dr. Rainer Schuhmann	Berliner Glas KGaA Herbert Kubatz GmbH & Co.										Dr. Michael Rehberg	DLR Projektträger	09:45						
10:05				Einführung						Dr. Henning Schröder, Dr. Frank Lerch,	Fraunhofer IZM Cluster Optik/OpTecBB	10:00									
10:20	Automated micro assembly of optical component collimator optics for diode laser bars	Tobias Honig	FISBA AG	Innovation and funding areas of quantum optics in Germany						Lars Unnebrink	VDI Technologiezentrum GmbH	10:05									
10:40	Customized broadband achromatic waveplates for short laser pulses	Jakob Silbermann	Bernhard Halle Nachf. Optische Werkstätten	Overview of quantum nano photonics (in Berlin und Brandenburg						Prof. Dr. Stephan Reitzenstein	TU Berlin	10:20									
10:45				UK National Quantum Technology Programme and QuantIC						Prof. Miles J. Padgett	University of Glasgow	10:40									
11:00	Kaffee/Ausstellung			Kaffee/Ausstellung						Kaffee/Ausstellung			Distribution, market access and expansion in the US technology market			10:45					
11:05																Participants pitch			11:00		
11:20																			11:05		
11:25																			11:20		
11:30	Using 3D Printing Technology to merge AR/VR eyewear with prescription lenses	Peter Paul Cornelissen	Luxexcel							Discussion and outlook:			Olaf Korth Dr. Frank Lerch	Crossroads Photonics Corporation OpTecBB e.V.	11:25						
11:45																11:30					
11:50	Manufacturing optical gratings using ultra precision cutting	Stefan Kühne	TU Berlin / Fraunhofer IPK	Quantum optical sensors and relevant laser technology						Dr. Andreas Wicht	Ferdinand-Braun-Institut, Leibniz-Institut für Höchstfrequenztechnik (FBH)				11:45						
12:10	Opto ceramic materials innovation potential for new optical systems	Dr. Uwe Reichel	Fraunhofer-Institut für Keramische Technologien und Systeme IKTS	Controlling tomorrow's quantum machines: Injecting software development lessons into quantum optics						Dr. Robert Jördens	QUARTIQ GmbH				11:50						
12:30	Novel crystals for tailored solid state lasers	Dr. Christian Kränkel	Zentrum für Lasermaterialien - Kristalle (ZLM-K) am Leibniz-Institut für Kristallzüchtung (IKZ)	Single photon counting applied to optical quantum technologies						Dr. Michael Wahl	PicoQuant GmbH				12:10						
12:45																12:30					
12:50	Lunch/Ausstellung			Quantum devices and their variety of application in science						Prof. Yoshihiro Takiguchi	Hamamatsu Photonics/GPI/OPTONEXT HAMAMATSU				12:45						
13:05				Lunch/Ausstellung			Lunch/Ausstellung						12:50								
13:10																13:05					
13:25																13:10					
13:45																13:25					
13:50	Diffraction optical elements for beam-splitting and structured illumination: Design, manufacturing, applications	Andreas Hermerschmidt	HOLOEYE Photonics AG							13:45											
14:05										13:50											
14:10	Precise design of diffraction optics and nanophotonic setups using finite-element technology	Dr. Sven Burger	JCMwave GmbH	High-end lasers for quantum experimentation and quantum components, systems and sensors for applications			Dr. Robin Head	M Squared				14:05									
14:25										14:10											
14:30	Design and simulation of optical systems and components for interferometry	Dr. Goran Bastian Baer	Baer - Optical Engineering	Future miniaturized diode-laser systems for quantum sensing applications			Dr. Patrick Leisching	TOPTICA Photonics AG	Registrierung/Kaffee/Ausstellung			14:25									
14:50	Optics design and optimization for medical technology, metrology, and material processing	Dr. Volker Raab	Raab-Photonik GmbH	Quantum communications in telecom fibre-optic networks			Andrew Shields	Toshiba Europe				14:30									
15:00										14:50											
15:10	Kaffee/Ausstellung			Free-space and hand held quantum optical devices			Prof. Dr. Harald Weinfurter	Ludwig-Maximilian University of Munich (LMU)	Welcome and Introduction oft he OSA/SPIE Student Chapter Berlin and OpTecBB			15:00									
15:25				Kaffee/Ausstellung			How to start, grow, sell, start, grow and sell photonics companies			Wolfgang Gries	II-VI DIRECTPHOTONICS	15:10									
15:30							How to start, grow and sell a photonic company - the u2t case			Andreas Umbach	Finisar Germany GmbH	15:25									
15:40	Miniaturization of opto-electronic devices applying Si-micro mechanics	Dr. Jörg-Reinhardt Kropp	InBeCon GmbH				How to start a company out of the University the Sicoya case			Dr. Torsten Fiegler	Sicoya GmbH	15:30									
15:55							How to start a company out of the University the Xplorayton case			Dr. Bernhard Hesse	Xplorayton GmbH	15:40									
16:00	VirtualLab Fusion - Fast Physical Optics Software	Prof. Frank Wyrowski	Jena and LightTrans International	Test and measurement equipment for quantum optics research and development			Felix Lenze	Tektronix GmbH	University support for Start-ups			Thomas Wagner	HU Gründerservice	15:55							
16:10										How to look for finances			Dr. Andreas Olmes	High_tech Gründerfonds	16:00						
16:20	Measuring and testing of surfaces, components and systems in optics and related areas	Thomas Blümel	TRIOPTICS Berlin GmbH	Secure datacenter interconnect			Michael Roth	ADVA Optical Networking SE	Legal and IP questions in founding a company			Prof. Dr. Walther Rust	Mock Rechtsanwälte	16:10							
16:25										The Ledvance approach to support Start-ups			Dr. Claudia Schulze	LEDVANCE GmbH	16:20						
16:40	Flexible equipment for testing of optical parameters of single lenses and optical systems	Dr.-Ing. Stephan Rothe	OEG Gesellschaft für Optik, Elektronik & Gerätetechnik	From silicon photonics towards quantum optics - Research in CMM-FBK			George Pucker	Centre of Materials and Microsystems, Fondazione Bruno Kessler, Povo-Trento, Italia							16:25						
16:55															16:40						
17:00	Automated manufacturing of single- and multi-mode fiber components for laser and beam delivery systems and optical networks	Dr.-Ing. Thomas Theeg	FiberBridge Photonics GmbH	Optimization of quantum optical devices with machine learning approaches			Dr. Philipp-Immanuel Schneider	JCMwave GmbH							16:55						
17:15										Discussion and Remarks						17:00					
17:20	Wrap up, final discussion, networking			Implementation of quantum photonics devices with rare ions doped solids			Dr. Margherita Mazzera	ICFO, The Institute of Photonic Sciences and the Barcelona Institute of Technology					17:15								
17:40				Countdown of Quantum Supremacy: An Update from the Google Quantum Artificial Intelligence Lab			Dr. Hartmut Neven	Google					17:20								
18:00	Photonic Days Berlin Brandenburg Reception at Bunsensaal												18:00								

