Plenary Talks, Prize Talks, Plenary Special Talks, Tutorials, Joint Symposia: Berlin 2018

Plenary Talks (PLV)

Sun, 18:45–19:30	H 0105	Sunday Evening Lecture: PLV I: Next exit future: Is it them or us? — •Ranga Yogeshwar
Mon, 08:30–09:15	H 0105	Plenary Talk: PLV II: Imaging Topological Electrons in Low Dimensions: from the Inorganic to the Organic — •Michael F. Crommie
Mon, 14:00–14:45	H 0105	Plenary Talk: PLV III: Imaging and controlling nanoscale crystal growth in the transmission electron microscope — •Frances M. Ross
Mon, 14:00–14:45	H 0104	Plenary Talk: PLV IV: Fast Parametric Interactions Between Superconducting Quantum Circuits — •Raymond W Simmonds
Tue, 08:30–09:15	H 0105	Plenary Talk: PLV V: Upside-Down and Inside-Out: Biomechanics of Cell Sheet Folding — •Raymond Goldstein
Tue, 17:30–18:15	H 0105	Plenary Talk: PLV VI: Resonant Inelastic X-Ray Scattering — •Lucio Braicovich and Giacomo Claudio Ghiringhelli
Wed, 08:30–09:15	H 0105	Plenary Talk: PLV VII: Nanoscale thermal imaging of dissipation in quantum systems — •Eli Zeldov
Wed, 14:00–14:45	H 0105	Plenary Talk: PLV VIII: Quantum photonics using van der Waals heterostructures — •Atac Imamoglu
Wed, 14:00–14:45	H 0104	Plenary Talk: PLV IX: Hairy Hydrodynamics — •Anette Hosoi
Wed, 20:00–21:00	Urania	Evening Talk: PLV X: Kollektive Dynamik in Sozialen Systemen: Netzwerke, Emotionen und Big Data — •Frank Schweitzer
Thu, 08:30–09:15	H 0105	Plenary Talk: PLV XI: Emergent properties and functions of topological magnets — •Yoshinori Tokura
Thu, 14:00–14:45	H 0105	Plenary Talk: PLV XII: From Atomistic Simulations into the Mouse: Learning how to exploit bacterial adhesives as nanoscale probes to map the mechanical strain of tissue fibers. — •Viola Vogel, Simon Arnoldini, Alessandra Moscaroli, Mamta Chabria, Manuel Hilbert, Samuel Heritig, Roger Schibli, and Martin Behe
Thu, 14:00–14:45	H 0104	Plenary Talk: PLV XIII: A significant raw material of the 21st century — •Claudia Draxl
Thu, 18:00–19:00	H 0105	Evening Talk: PLV XIV: Lise-Meitner-Lecture: Multiferroic Materials for a New Age — •Nicola Spaldin

Fri, 08:30–09:15	H 0105	Plenary Talk: PLV XV: How photons change the properties of matter: QED-TDDFT an ab initio framework for modeling Light-Matter interaction — •Angel Rubio

Prize Talks (PRV)

Mon, 13:15–13:45	H 1012	Prize Talk: PRV I: Fabrication and characterization of spin Hall nano-oscillators — •Toni Hache, Tillmann Weinhold, Kai Wagner, Nana Nishida, Sri Sai Phani Kanth Arekapudi, Tobias Hula, Olav Hellwig, and Helmut Schultheiss
Tue, 13:15–13:45	H 0105	Prize Talk: PRV II: Single-Atom Catalysis: An Atomic-Scale View — •Gareth Parkinson
Wed, 13:15–13:45	H 0105	Prize Talk: PRV III: Ultrafast transmission electron microscopy — •Sascha Schäfer
Thu, 13:15–13:45	H 0105	Prize Talk: PRV IV: Let's twist again -- Magnetic Skyrmions — •Karin Everschor-Sitte

Plenary Special Talks (PSV)

Mon, 13:15–13:45	HE 101	Lunch Talk: PSV I: What Counts in Public Transportation — •Jan Sablatnig
Mon, 13:15–13:45	H 0104	Lunch Talk: PSV II: Promoting academic Cooperation: The Alexander von Humboldt Foundation — •Dagmar Broemme
Tue, 13:15–13:45	HE 101	Lunch Talk: PSV III: Protecting Identities - as a Physicist in the Business for international Government Solutions — •Silke Bargstädt-Franke
Tue, 13:15–13:45	H 0104	Lunch Talk: PSV IV: FET Open: the European Innovation Council's exploratory engine for research on future disruptive technologies — •Martin Lange
Wed, 13:15–13:45	HE 101	Lunch Talk: PSV V: Physics meets optical manufacturing — •Ulrike Fuchs
Wed, 13:15–13:45	H 0104	Lunch Talk: PSV VI: The German Research Foundation -- overview and international programmes — •Cosima Schuster
Thu, 13:15–13:45	HE 101	Lunch Talk: PSV VII: Physicists in Consulting — •Rolf Loschek
Thu, 13:15–13:45	H 0104	Lunch Talk: PSV VIII: Funding Opportunities Provided by the German

Academic Exchange Service (DAAD) — •Holger Finken

Tutorials (TUT)

Sun, 16:00–18:30, H 0104 — TUT 1: Dynamics and Fluctuations in Economic and Financial Markets (joint session SOE/DY/TUT/AKjDPG)

16:00 TUT 1.1 Market microstructure: dynamics of the stock markets — •Thomas Guhr
16:50 TUT 1.2 Maximum-entropy models in economics and finance — •Tiziano Squartini
17:40 TUT 1.3 350 years of puzzles in economics -- and a solution. — •Ole Peters

Sun, 16:00–18:25, H 0105 — TUT 2: Quantum Technologies (joint session HL/TT/TUT)

16:00 TUT 2.1 Quantum Technology - how is research funded? — •Gerd Leuchs
16:35 5 min. break
16:40 TUT 2.2 Superconducting Quantum Circuits — •Rudolf Gross
17:15 TUT 2.3 Josephson junction based interferometers and amplifiers — •Sebastian Kempf
17:50 TUT 2.4 Manipulation of quantum bits based on defect centres in diamond — •Oliver Benson

Sun, 16:00–18:15, H 1012 — TUT 3: Spin-Orbit Coupling

16:00 TUT 3.1 Role of spin in the structure of matter and spin-related phenomena — •Michel I. Dyakonov
16:45 TUT 3.2 From the Spin Hall Effect to the Quantum Spin Hall Effect — •Hartmut Buhmann
17:30 TUT 3.3 Spin Orbit Coupling in Doped Mott Insulators — •Alessandra Lanzara

Sun, 16:00–18:25, H 1058 — TUT 4: Semiconductor Optics (joint session HL/TUT)

16:00 TUT 4.1 Quantum dots for photonic quantum technologies — •Peter Michler
16:45 5 min. break
16:50 TUT 4.2 Non-classical light emission and superradiant emitter coupling in semiconductor nanolasers — •Frank Jahnke
17:35 5 min. break
17:40 TUT 4.3 Semiconductor spin-photon interfaces for quantum repeaters and cluster state generation — •Ruth Oulton

Joint Symposia

SYSD: Symposium SKM Dissertation-Prize 2018
Mon, 11:00 – 12:40, HE 101

SYID: Symposium Information Driven Materials Research
Mon, 09:30–12:00, H 0105

SYMS: Symposium Data-driven Methods in Molecular Simulations of Soft-Matter Systems
Mon, 15:00–17:45, H 0105

SYBS: Symposium Physics of Biological and Synthetic Active Matter
Tue, 09:30–12:15, H 0105

SYTO: Symposium Topology in Condensed Matter Physics
Wed, 09:30–12:15, H 0105

SYVC: Symposium Voltage Control of Functional Interfaces: Magneto-ionic Meet Memristive Systems
Wed, 15:00–18:00, H 0105

SYTH: Symposium Terahertz physics: toward probing and controlling of materials on the nanoscale
Thu, 09:30–12:15, H 0105

SYDM: Symposium 2D Materials
Thu, 15:00–17:45, H 0105

SYAM: Symposium Physics of Ancient Materials
Fri, 09:30–12:15, H 0105