

Österreichische Physikalische Gesellschaft

64. Jahrestagung

24.–27. September 2014

ECHOPHYSICS – Europäisches Zentrum f. Physikgeschichte

Schloss 1, 8225 Pöllau b. Hartberg, Steiermark

Programmübersicht

Energietag 2014

Mittwoch/Wednesday, 24.09.2014, 10-16:15, Festsaal Schloss Pöllau

Zeit time	ID	Vortrag / Presentation
10:00		Eröffnung der Veranstaltung und Begrüßung der Gäste / Opening of the event and welcoming of participants
10:05	E T01	Historical aspects of the concept of energy <i>Alessandro Pascolini</i>
10:50	E T02	Energie, Wirtschaft und Gesellschaft: eine Zeitreise <i>Werner Watzenig</i>
11:35 11:54		Kaffeepause / Coffee break
11:55	E T04	Erdgasversorgung in Österreich <i>Andreas Lederbauer</i>
12:40 13:59		Mittagspause / Lunch break
14:00	E T03	Zur Geschichte der Mobilität – Entwicklung, Barrieren und Chancen <i>Harald Frey</i>
14:45	E T05	Wegkreuzungen mit Information und Kommunikation <i>Helmut Malleck</i>
15:30	E T06	Geschichte der Kernenergie <i>Helmuth Böck</i>
16:15		Ende der Veranstaltung / End of the event
17:00 - 18:30		Umtrunk und Ausstellungsbesuch ECHOPHYSICS
19:00 - 20:00	A T01	Öffentlicher Abendvortrag: Festsaal Schloss Pöllau Univ.-Prof. Dr. Friedrich Wagner <i>Max-Planck-Institut für Plasmaphysik, Teilinstitut Greifswald</i> Die Energiewende Deutschlands – wohin wird sie führen?

COND

Mittwoch/Wednesday, 24.09.2014, 10-13, 14-18:30, Refektorium

Zeit time	ID	COND, Session 1 Chair: Ulrike Diebold
10:00	CM T11	Functional molecules on surfaces: From conducting wires to the role of single atoms <i>Leonhard Grill</i>
10:30	CM T12	Ordered Indium adatoms on the reduced In₂O₃(111) surface <i>Margareta Wagner, Steffen Seiler, Bernd Meyer, Lynn A. Boatner, Michael Schmid and Ulrike Diebold</i>
10:45	CM T13	Growth and characterization of the p-type transparent conducting oxide ZnCo₂O₄ <i>Bastian Henne, Verena Ney, Fabrice Wilhelm, Katharina Ollefs, Andrei Rogalev and Andreas Ney</i>
11:00	CM T14	The structure of the Fe₃O₄(001) surface <i>Roland Bliem, Eamon McDermott, Pascal Ferstl, Oscar Gamba, M. Alexander Schneider, Michael Schmid, Peter Blaha, Ulrike Diebold, Lutz Hammer and Gareth Parkinson</i>
11:15	CM T15	Adsorption of formic acid and Methanol on the Magnetite (001) surface <i>Oscar Gamba, Roland Bliem, Heshmat Noei, Andreas Stierle, Michael Schmid, Ulrike Diebold and Gareth Parkinson</i>
11:30 11:59		Kaffeepause / Coffee break
Zeit time	ID	COND, Session 2 Chair: Adolf Winkler
12:00	CM T21	Enhancing the reactivity of a Perovskite surface: Deposition of Sr-adatoms and NiO-clusters onto SrTiO₃(110)-(4×1) surface <i>Stefan Gerhold, Zhiming Wang, Michele Riva, Xianfeng Hao, Cesare Franchini, Karina Schulte, Michael Schmid and Ulrike Diebold</i>
12:15	CM T22	Development and character of gap states on alkali doping of Sexiphenyl films <i>Eva M. Reinisch, Thomas Ules, Peter Puschnig, Stephen Berkebile, Markus Ostler, Thomas Seyller, Michael Ramsey and Georg Koller</i>
12:30	CM T23	Alkali metal doped para-sexiphenyl monolayers and thin films on Al(110): an angle resolved UV photoemission study <i>Hannes Offenbacher, Georg Koller, Thomas Ules, Eva Reinisch, Peter Puschnig and Michael Ramsey</i>
12:45	CM T24	Organic thin film transistors under ultra-high vacuum conditions: Deposition and device temperature dependent in-situ electrical and surface analytical characterization <i>Roman Lassnig, Michael Hollerer, Bernd Striedinger, Alexander Fian, Barbara Stadlober and Adolf Winkler</i>
13:00 13:59		Mittagspause / Lunch break

Zeit time	ID	COND, Session 3 Chair: Peter Hadley
14:00	CM T31	Lattice simulation of Dirac fermions without fermion doubling: application to spintronics <i>Rene Hammer</i>
14:30	CM T32	Modeling of Ohmic contacts of nano-devices within the Lindblad equation <i>Walter Poetz</i>
14:45	CM T33	First-principles investigation of crystalline topological insulators Pb1 xSnx(Se,Te) <i>Kerstin Hummer, Marta Galicka, Ryszard Buczko and Georg Kresse</i>
15:00	CM T34	Formation of mono- and bi-metallic nanowires in vortices in superfluid He nanodroplets <i>Philipp Thaler, Alexander Volk, Florian Lackner, Johannes Steurer, Daniel Knez, Werner Grogger, Ferdinand Hofer and Wolfgang E. Ernst</i>
15:15	CM T35	HR-STEM investigations of metallic nanoparticles grown with superfluid He-droplets <i>Daniel Knez, Philipp Thaler, Alexander Volk, Werner Grogger, Wolfgang E. Ernst and Ferdinand Hofer</i>
15:30	CM T36	Investigations of defects in semiconductors <i>Martin Faccinelli, Stefan Kirnstoetter and Peter Hadley</i>
15:45	CM T37	Investigation of performance limiting point defects at semiconductor-oxide interfaces using electrically detected magnetic resonance <i>Gernot Gruber, Markus Koch and Peter Hadley</i>
16:00 16:29		Kaffeepause / Coffee break
Zeit time	ID	COND, Session 4 Chair: Oskar Paris
16:30	CM T41	High Precision Experiments with Cold and Ultra-Cold Neutrons <i>Hartmut Abele</i>
17:00	CM T42	Methodische Entwicklungen in der Neutronenultrakleinwinkelstreuung <i>Erwin Jericha, Wilfried Mach, Tobias Rechberger, Alexander Zdarzil and Gerald Badurek</i>
17:15	CM T43	Detailed shape retrieval of colloidal inorganic nanocrystals from SAXS-data <i>Max Burian, Gerhard Fritz-Popovski, Oskar Paris and Rainer T. Lechner</i>
17:30	CM T44	Metastable crystal phase in the shell of PbS/CdS core/shell nanocrystals <i>Rainer T. Lechner, Gerhard Fritz-Popovski, Maksym Yarema, Wolfgang Heiss and Oskar Paris</i>
17:45	CM T45	In-situ SAXS/WAXS as a novel method to study ion transport phenomena in confined geometry <i>Christian Prehal, Daniel Weingarth, Emilie Perre, Rainer T. Lechner, Heinz Amenitsch, Oskar Paris and Volker Presser</i>

18:00	CM T46	Raman investigation of Tannin based rigid foams <i>Andreas Reyer, Gianluca Tondi, Alexander Petutschnigg, Martin Demker and Maurizio Musso</i>
18:15	CM T47	Inelastic HAS intensities on Sb(111): Indication of a low-lying acoustic plasmon mode <i>Patrick Kraus, Florian Apolloner, Christian Gösweiner, Giorgio Benedek and Wolfgang E. Ernst</i>
18:30		Ende der Veranstaltung / End of session

COND

Donnerstag/Thursday, 24.09.2014, 15-16:45, Festsaal Sparkasse

Zeit time	ID	COND, Session 5 Chair: Walter Poetz
15:00	CM T51	Hidden Scale Invariance in Metallic Elements <i>Felix Hummel, Georg Kresse, Jeppe Dyre and Ulf Pedersen</i>
15:15	CM T52	Density determination of liquid metals <i>Alexander Schmon, Kirmanj Aziz and Gernot Pottlacher</i>
15:30	CM T53	In-situ electrodeposition of Co in a SQUID magnetometer to study the absolute magnetic moment of ultrathin Co layers <i>Stefan Toplovec, Heinz Krenn (2) and Roland Würschum</i>
15:45	CM T55	Plasmon dispersion and lifetime in the two-dimensional electron liquid <i>Jürgen Thomas Drachta, Dominik Kreil, Raphael Hobbiger and Helga M. Böhm</i>
16:00	CM T56	Correlated photons from microcavity polaritons <i>Patrick Mai, Mathias Sassermaun, Zoltán Vörös, Gregor Weihs and Wolfgang Langbein</i>
16:15	CM T57	Chromium on superfluid Helium nanodroplets: Theoretical investigation of the ground state and selected excited states <i>Martin Ratschek, Johann V. Pototschnig, Andreas W. Hauser and Wolfgang E. Ernst</i>
16:30	CM T58	Novel exact closed-form solutions for the resonant frequencies and mode-shapes of Euler-Bernoulli beams with constant thickness and polynomial width <i>Roman Beigelbeck, Michael Schneider, Michael Stifter, Thomas Voglhuber-Brunnmaier, Bernhard Jakoby, Ulrich Schmid and Franz Keplinger</i>
16:45		Ende der Veranstaltung / End of session

COND

Donnerstag/Thursday, 24.09.2014, 15-16:45, Festsaal Rathaus

Zeit time	ID	COND, Session 6 Chair: Rainer Lechner
15:00	CM T61	A simple model to study the influence of topology and distribution of reversible sacrificial bonds on the mechanical behavior of polymers <i>S. Soran Nabavi and Markus A. Hartmann</i>
15:15	CM T62	A tubular resonator operated in wall-thickness-mode for simultaneous longitudinal viscosity and speed of sound sensing of liquids <i>Thomas Voglhuber-Brunnmaier, Roman Beigelbeck, Hannes Antlinger, Stefan Clara, Samir Cerimovic, Bernhard Jakoby and Franz Keplinger</i>
15:30	CM T63	Analysis of the propagation of electromagnetic waves in inhomogeneous solids for applications in mining <i>Ronald Meisels, Michael Toifl, Philipp Hartlieb, Friedemar Kuchar and Thomas Antretter</i>
15:45	CM T64	Characterisation of microfiltration membranes by wetting investigations in the ESEM <i>Manfred Nachtnebel and Peter Pölt</i>
16:00	CM T65	Experimental and computational aspects of analytical electron tomography and its application to nanomaterials <i>Angelina Orthacker, Georg Haberfehlner, Johannes Tändl, Cecilia Poletti and Gerald Kothleitner</i>
16:15	CM T66	Analysis of amorphous-nanocrystalline silicon thin films by time-of-flight elastic recoil detection analysis and high-resolution electron microscopy <i>Krunoslav Juraić, Davor Gracin, Zdravko Siketić and Miran Čeh</i>
16:30	CM T68	Initial film growth studies of indigo on SiO₂ <i>Boris Scherwitzl, Adolf Winkler and Roland Resel</i>
16:45		Ende der Veranstaltung / End of session

COND Poster

Donnerstag/Thursday, 24.09.2014, 18-19:30, Schloss Pöllau

ID	COND, Poster Chair: NN
CM P01	Tuning mesoporous silica films properties by Deep X-ray Lithography for fluidics applications <i>Benedetta Marmiroli, Barbara Sartori and Heinz Amenitsch</i>
CM P02	Measurement of selective adsorption resonance lifetimes from drift spectra of ⁴He-Sb(111) <i>Florian Apolloner, Patrick Kraus, Christian Gösweiner, Michael Mayrhofer-Reinhartshuber, Salvador Miret-Artés and Wolfgang E. Ernst</i>

CM P03	<p align="center">Effect of humidity and salts on the mesostructure of silica nanoparticles synthesized in the gas phase</p> <p align="center"><i>Barbara Sartori, Benedetta Marmiroli, Fernando Cacho-Nerin and Heinz Amenitsch</i></p>
CM P04	<p align="center">Sorption-induced deformation of hierarchical silica-based monoliths</p> <p align="center"><i>Roland Johann Morak, Christian Balzer, Maxim Erko, Christos Triantafyllidis, Nicola Hüsing, Gudrun Reichenauer and Oskar Paris</i></p>
CM P05	<p align="center">Characterization of Li charging state of $\text{Li}_{1-x}\text{CoO}_2$ battery cathodes by means of SQUID magnetometry</p> <p align="center"><i>Gregor Klinser, Stefan Topolovec, Heinz Krenn, Harald Kren, Stefan Koller and Roland Würschum</i></p>
CM P06	<p align="center">Transport simulations of Dirac Fermions on surfaces of topological insulators</p> <p align="center"><i>Walter Poetz and Magdalena Schreilechner</i></p>
CM P07	<p align="center">Inelastic close coupling calculations reproducing temperature dependency of helium atom scattering experiments on pnictogen surfaces</p> <p align="center"><i>Christian Gösweiner, Patrick Kraus, Florian Apolloner, Salvador Miret-Artès and Wolfgang E. Ernst</i></p>
CM P08	<p align="center">Development of a molecular beam for surface reactivity studies</p> <p align="center"><i>Daniel Halwidl, Jiri Pavelec, Jan Hulva, Florian Brunbauer, Michael Schmid, Gareth Parkinson and Ulrike Diebold</i></p>
CM P09	<p align="center">Contact charging of mineral particles studied by Kelvin Probe Force Microscopy</p> <p align="center"><i>Stefan Klima, Monika Mirkowska and Christian Teichert</i></p>
CM P10	<p align="center">Setup of the machine for reactivity studies</p> <p align="center"><i>Jiri Pavelec, Daniel Halwidl, Jan Hulva, Michael Schmid, Gareth Parkinson and Ulrike Diebold</i></p>
CM P11	<p align="center">AFM morphology investigation of pentacene films in electrode-dielectric transition area</p> <p align="center"><i>Michael Hollerer, Roman Lassnig, Adolf Winkler, Bernd Striedinger, Alexander Fian and Barbara Stadlober</i></p>
CM P12	<p align="center">AFM studies of adsorbed xylan on amorphous cellulose films using functionalized tips</p> <p align="center"><i>Caterina Cibula, Christian Ganser, Albrecht Miletzky, Stefan Spirk, Robert Schennach and Christian Teichert</i></p>
CM P13	<p align="center">Switching single molecules on a metal surface</p> <p align="center"><i>Simon Jaekel, Knud Seufert, Christophe Nacci and Leonhard Grill</i></p>
CM P14	<p align="center">MEMS-Magnetfeld Detektion</p> <p align="center"><i>Michael Stifter, Harald Steiner, Wilfried Hortschitz, Thilo Sauter and Franz Keplinger</i></p>

FAKT

Mittwoch/Wednesday, 24.09.2014, 10-13, 14-18:30, Festsaal RAIKA

Zeit time	ID	FAKT, Fundamental interactions Chair: Eberhard Widmann
10:00	FAKT T11	Latest results of the CRESST-II experiment <i>Achim Gütlein and Holger Kluck</i>
10:15	FAKT T12	Search for the violation of the Pauli Exclusion Principle with electrons <i>Andreas Pichler, Hexi Shi and Johann Marton</i>
10:30	FAKT T13	Measuring the ground state hyperfinestructure of antihydrogen <i>Clemens Sauerzopf, Martin Diermaier, Bernadette Kolbinger, Sebastian Lehner, Chloé Malbrunot, Oswald Massiczek, Martin Simon, Eberhard Widmann and Johann Zmeskal</i>
10:45	FAKT T14	Hyperfine spectroscopy setup for antihydrogen and first results with a hydrogen beam <i>Martin Diermaier, Peter Caradonna, Christoph Klaushofer, Chloe Malbrunot, Oswald Massiczek, Clemens Sauerzopf, Martin Simon, Michael Wolf, Johann Zmeskal and Eberhard Widmann</i>
11:00	FAKT T15	Precision measurements of neutron beta decay <i>Gertrud Konrad</i>
11:15 11:44		Kaffeepause / Coffee break
Zeit time	ID	FAKT, Fundamental interactions Chair: Christoph Schwanda
11:45	FAKT T21	qBOUNCE: Frequency's view on Newton's Law <i>Gunther Cronenberg, Hanno Filter, Peter Goldenbort, Tobias Jenke, Martin Thalhammer and Hartmut Abele</i>
12:00	FAKT T22	Oscillations in the exponential power-law in electron capture decays of hydrogen-like ions <i>Christoph Klaushofer and Paul Bühler</i>
Zeit time	ID	FAKT, Theory: Gravity Chair: NN
12:15	FAKT T23	Conformal gravity holography in four dimensions <i>Daniel Grumiller, Maria Irakleidou, Iva Lovrekovic and Robert McNees</i>
12:30	FAKT T24	Canonical charges and asymptotic symmetries in four dimensional conformal gravity holography <i>Daniel Grumiller, Maria Irakleidou, Iva Lovrekovic, Robert McNees and Florian Preis</i>
12:45	FAKT T25	Higher-Spin Gravity in 2+1 Dimensions <i>Max Riegler</i>
13:00 13:59		Mittagspause/Lunch break

Zeit time	ID	FAKT, Theory: Gravity Chair: NN
14:00	FAKT T31	Numerical relativity in asymptotic anti-de Sitter spacetimes <i>Christian Ecker</i>
Zeit time	ID	FAKT, Theory: QCD Chair: NN
14:15	FAKT T32	Holographic Glueball Decay <i>Frederic Brünner, Denis Parganlija and Anton Rebhan</i>
14:30	FAKT T33	Effective mass signatures in multiphoton pair production <i>Christian Kohlfürst, Holger Gies and Reinhard Alkofer</i>
14:45	FAKT T34	Heavy quarkonia in a sophisticated Bethe-Salpeter-equation meson model <i>Thomas Hilger</i>
15:00	FAKT T35	A new strategy for hadron phenomenology with the DS-BS-equation approach <i>Andreas Krassnigg</i>
15:15	FAKT T36	Non-perturbative propagators and running coupling in the conformal window of QCD <i>Reinhard Alkofer, Christian S. Fischer and Markus Hopfer</i>
15:30 15:59		Kaffeepause / Coffee break
Zeit time	ID	FAKT, Collider physics Chair: Dietmar Kuhn
16:00	FAKT T41	ATLAS Inner Tracking detectors: Run 1 performance and developments for Run 2 <i>Wolfgang Lukas</i>
16:15	FAKT T42	Measurement of the decay $B \rightarrow D l \nu$ in fully reconstructed events and determination of the CKM matrix element V_{cb} at Belle <i>Robin Glattauer</i>
16:30	FAKT T43	Measurement of the decay $B_0^s \rightarrow J/\psi \phi(1020)$ <i>Lukas Lechner, Felicitas Andrea Thorne and Christoph Schwanda</i>
16:45	FAKT T44	Measurement of the decay $B_0^s \rightarrow D_s^- \pi^+$ at the Belle experiment <i>David Bricher, Felicitas Andrea Thorne and Christoph Schwanda</i>
Zeit time	ID	FAKT, Collider detectors Chair: NN
17:00	FAKT T45	Time resolution studies for the PANDA time-of-flight detector using SiPM <i>Lukas Gruber, Stefan Enrico Brunner, Johann Marton, Herbert Orth and Ken Suzuki</i>
17:15	FAKT T46	The Data Acquisition and Preprocessing System of the Belle II Silicon Vertex Detector <i>Richard Thalmeier, Thomas Bergauer, Florian Buchsteiner, Friedl Markus, Christian Irmeler, Katsuro Nakamura, Siegfried Schmid, Helmut Steininger and Hao Yin</i>

17:30	FAKT	FAKT Versammlung
18:30		
18:30		Ende der Veranstaltung / End of session
19:00 - 20:00	A T01	Öffentlicher Abendvortrag: Festsaal Schloss Pöllau Univ.-Prof. Dr. Friedrich Wagner <i>Max-Planck-Institut für Plasmaphysik, Teilinstitut Greifswald</i> Die Energiewende Deutschlands – wohin wird sie führen?

FAKT Poster

Donnerstag / Thursday, 25.09.2014, 18-19:30, Schloss Pöllau

ID	FAKT, Poster Chair: NN	
FAKT P01	Simulations for the measurement of the groundstate hyperfinestructure of antihydrogen <i>Clemens Sauerzopf</i>	
FAKT P02	A detector for in-beam measurements of the groundstate hyperfinestructure of antihydrogen <i>Clemens Sauerzopf</i>	
FAKT P03	Non-Standard Model physics in neutron beta decay <i>Daniel Moser, Gertrud Konrad and Hartmut Abele</i>	
FAKT P04	Left-right symmetry in neutron beta decay <i>Michael Klopff, Gertrud Konrad, Wilfried Mach, Heiko Saul, Xiangzun Wang and Hartmut Abele</i>	
FAKT P05	Investigation on Possibilities for Prompt Gamma Imaging <i>Florian Pipper, Johann Zmeskal, Johann Marton, Andreas Pichler and Dominik Steinschaden</i>	
FAKT P06	Determination of the Pion Sigma scattering lengths from the charmed Lambda to Sigma pi pi decay using Belle data <i>Manfred Berger, Ken Suzuki, Christoph Schwanda, Thorne Felicitas and Robin Glattauer</i>	

FAKT

Freitag/Friday, 26.09.2014, 9-12:15, Festsaal Raika

Zeit time	ID	FAKT, Detectors and methods Chair: NN
09:00	FAKT T51	Design and setup of a high resolution X-ray detector system for the kaonic deuterium experiment at J-PARC <i>Carolina Berucci, Michael Cargnelli, Johann Marton, Eberhard Widmann and Johann Zmeskal</i>

09:15	FAKT T52	Extending Bayesian evaluation methods to differential angle cross sections and spectra <i>Georg Schnabel and Helmut Leeb</i>
09:30	FAKT T53	Magnetische Wanderwellenresonatoren für polarisierte Neutronenstrahlen <i>Erwin Jericha, Stefan Baumgartner, Bernhard Berger, Peter Geltenbort, Christoph Gösselsberger, Masahiro Hino, Sebastian Nowak, Tatsuro Oda, Robert Raab and Gerald Badurek</i>
09:45	FAKT T54	Laser photodetachment in a gas-filled RF-quadrupole for AMS <i>Johanna Pitters, Oliver Forstner, Johannes Lachner, Johannes Lahner, Martin Martschini, Alfred Priller, Peter Steier and Robin Golser</i>
10:00	FAKT T55	Status of MedAustron – the Austrian ion therapy and research center <i>Alexander Wastl, Adriano Garonna, Claus Schmitzer, Alexander Koschik, Matthias Kronberger, Liviu Penescu, Christoph Kurfuerst and Tobias Kulenkampff</i>
10:15 10:44		Kaffeepause / Coffee break
Zeit time	ID	FAKT, Particle theory & QCD Chair: Reinhard Alkofer
10:45	FAKTT 61	Systematic studies of texture zeros in the lepton mass matrices <i>Patrick Ludl and Walter Grimus</i>
11:00	FAKT T62	The Role of the Quark-Gluon Vertex Function in the QCD Phase Transition <i>Markus Hopfer, Andreas Windisch and Reinhard Alkofer</i>
11:15	FAKT T63	Gluonic three-point correlations in pure Landau gauge QCD <i>Adrian Lorenz Blum, Reinhard Alkofer, Gernot Eichmann, Markus Q. Huber, Mario Mitter, Lorenz von Smekal, Milan Vujanovic and Richard Williams</i>
11:30	FAKT T64	Four-fermion condensation in strongly interacting dense matter <i>Andreas Windisch, Kai Schwenzer and Mark Alford</i>
11:45	FAKT T65	Measurement of quarkonium production cross sections at CMS <i>Johannes Brandstetter, Ilse Krätschmer and Valentin Knünz</i>
12:00	FAKT T66	Alpha-nucleus optical potentials for nuclear astrophysics <i>Thomas Srdinko, Georg Schnabel, Doreen Melari Warjri and Helmut Leeb</i>
12:15		Ende der Veranstaltung / End of session

AMP

Mittwoch/Wednesday, 24.09.2014, 14:30-16.30, Festsaal Sparkasse

Zeit time	ID	AMP Chair: Markus Kitzler
14:30	AMP T01	High harmonics from a radio-frequency pre-excited medium <i>Enikoe Seres, Jozsef Seres, Georg Winkler and Thorsten Schumm</i>
14:45	AMP T02	Attosecond dynamics of parametric amplification at 11 nm <i>Jozsef Seres, Enikoe Seres, Björn Landgraf, Boris Ecker, Bastian Aurand, Andreas Hoffmann, Georg Winkler, Shinichi Namba, Thomas Kühel and Christian Spielmann</i>
15:00	AMP T03	Extreme ultraviolet light source based on intracavity high harmonic generation in a mode locked Ti:sapphire oscillator with 9.4 MHz repetition rate <i>Enikoe Seres, Jozsef Seres and Christian Spielmann</i>
15:15	AMP T04	Comparison of multi-photon and EUV single-photon probing using a novel time-resolved EUV spectrometer <i>Markus Koch, Jakob Grilj, Emily Sistrunk, Thomas J. A. Wolf and Markus Gühr</i>
15:30	AMP T05	Systematic investigation of the absorption spectrum of La atoms using laser excitation and optogalvanic detection <i>Tobias Binder and Laurentius Windholz</i>
Zeit time	ID	AMP Chair: Markus Koch
15:45	AMP T06	Attosecond spatial control of electron emission dynamics <i>Li Zhang, Xinhua Xie, Stefan Roither, Daniil Kartashov, Yueming Zhou, Yanlan Wang, Chuanliang Wang, Markus Schöffler, Paul Corkum, Andrius Baltuska, Peixiang Lu, Igor Ivanov, Anatoli Kheifets, Xiaojun Liu, Andre Staudte and Markus Kitzler</i>
16:00	AMP T07	Electronic pre-determination of ethylene fragmentation dynamics <i>Xinhua Xie, Erik Lötstedt, Stefan Roither, Markus Schöffler, Sonia Erattupuzha, Daniil Kartashov, Gerhard Paulus, Atsushi Iwasaki, Andrius Baltuska, Kaoru Yamanouchi and Markus Kitzler</i>
16:15	AMP T08	Attosecond strong-field electron wavepacket interferometry <i>Xinhua Xie, Stefan Roither, Daniil Kartashov, Diego Arbó, Stefanie Gräfe, Andrius Baltuska, Joachim Burgdörfer and Markus Kitzler</i>
16:30		Ende der Veranstaltung / End of session
17:00 - 18:30		Umtrunk und Ausstellungsbesuch ECHOPHYSICS
19:00 - 20:00	A T01	Öffentlicher Abendvortrag: Festsaal Schloss Pöllau Univ.-Prof. Dr. Friedrich Wagner <i>Max-Planck-Institut für Plasmaphysik, Teilinstitut Greifswald</i> Die Energiewende Deutschlands – wohin wird sie führen?

Öffentliche Abendvorträge, Festsaal Schloss Pöllau

Zeit time	ID	Öffentlicher Abendvortrag Mittwoch, 24.09.2014 Chair: NN
19:00 - 20:00	A T01	Die Energiewende Deutschlands – wohin wird sie führen? <i>Friedrich Wagner</i>
		Öffentlicher Abendvortrag Donnerstag, 25.09.2014 Chair: NN
19:30 - 20:30	A T02	Quantenphysik und Information <i>Anton Zeilinger</i>
		Öffentlicher Abendvortrag Freitag, 26.09.2014 Chair: NN
19:30 - 20:30	A T03	Evolution gesehen durch die Brillen der Physiker und der Biologen <i>Peter Schuster</i>

Plenarsitzung / Plenary session

Donnerstag/Thursday, 25.09.2014, 9-18, Festsaal Schloss Pöllau

Zeit time	ID	Plenarvortrag OGD Chair: Ulrike Diepold
09:00	PLE T01	The small frontier: Imaging molecular functionality <i>Klaus Kern</i>
	ID	Plenarvortrag FKP Chair: NN
09:45	PLE T02	Hunds-rule coupling and magnetism in technetium and chromium oxides <i>Markus Aichhorn</i>
10:30 10:59		Kaffeepause / Coffee break

11:00 - 12:14		Ehrungen Fritz Kohlrausch-Preis Max Auwärter-Preis Victor Franz Hess-Preis Anton Paar-Preis Preise für Fachbereichsarbeiten Team Internationale Physikolympiade Team International Young Physicists' Tournament (IYPT)
	ID	Plenarvortrag FAKT Chair: NN
12:15	PLE T03	The PANDA experiment at FAIR <i>Paul Bühler</i>
13:00 14:29		Mittagspause / Lunch break
14:30 - 15:30		ÖPG-Jahreshauptversammlung
15:30 15:59		Kaffeepause / Coffee break
	ID	Preisträgervortrag Fritz Kohlrausch-Preis Chair: NN
16:00	PR T01	Water' s second glass transition <i>Katrin Amann-Winkel</i>
	ID	Preisträgervortrag Max Auwärter-Preis Chair: NN
16:30	PR T02	From ultrathin perovskites to oxide quasicrystals <i>Stefan Förster</i>
	ID	Preisträgervortrag Victor Franz Hess-Preis Chair: NN
17:00	PR T03	Microwave spectroscopic study of the hyperfine structure of antiprotonic helium-3 <i>Susanne Friedreich</i>
17:30	PLE T04	Projekt: „Coole Physik“ <i>Erich Gornik, Christian Fabjan, Walter Kutschera, Leo Ludick und Leopold Mathelitsch</i>
18:00 - 19:30		Posterpräsentationen, Schloss Pöllau COND, FAKT, Astro/ExoLife
19:30 - 20:30	A T02	Öffentlicher Abendvortrag, Festsaal Schloss Pöllau Univ.-Prof. Dr. Anton Zeilinger <i>Universität Wien & Österreichische Akademie der Wissenschaften, Wien</i> Quantenphysik und Information

Zeit time	ID	Physik und Schule Chair: NN
14:00	LHS T01	„Verborgene Schätze“: historische physikalische Geräte in Physik-Kabinetten <i>Armin Denoth</i>
14:20	LHS T02	Rundblick über physikalische Kulturgüter in Sammlungen an alten Höheren Schulen Österreichs <i>Leopold Stadler</i>
14:40	LHS T03	Projekt: „Coole Physik“ <i>Leopold Mathelitsch, Christian Fabjan, Erich Gornik, Walter Kutschera und Leo Ludick</i>
15:00	LHS 11	Interferometrie von Materiewellen <i>Julia Salapa</i> <i>Akademisches Gymnasium Wien (Betreuung: Dr. Erwin Kronberger)</i>
15:15	LHS 12	Die Automatisierung einer Carrera-Rennbahn <i>Michael Fellner</i> <i>BRG Wörgl (Betreuung: Mag. Christian Pronegg)</i>
15:30 15:59		Kaffeepause / Coffee break
16:00	LHS 13	Von Lasern und Legierungen <i>Philipp Haim</i> <i>BRG Wels (Betreuung: Mag. Petra Kragl)</i>
16:15	LHS 14	Die Möglichkeiten des 3D-Drucks mit dem Verfahren des Fused Deposition Modeling anhand des RepRap Prusa Mendel I2 <i>Benjamin von Berg</i> <i>Keplergymnasium Graz (Betreuung: Dr. Leander Brandl)</i>
16:30	LHS T04	From “The Big Bang Theory” to Young High-Potentials education in physics <i>Johannes Leitner, Ruth-Sophie Taubner, Maria Firneis and Regina Hitzenberger</i>
16:50		Physik-Olympiade
17:05		International Young Physicists´ Tournament
17:20 - 17:50		Geschäftssitzung des Fachbereichs (Neuwahl der Vorsitzenden)

CiP

Donnerstag/Thursday, 25.09.2014, 16-17:20, Festsaal Raika

Zeit time	ID	CIP Chair: Doris Steinmüller-Nethl
16:00	CIP T01	Bachelor, Master oder Dissertation – und was nachher? <i>Elisabeth Schwab and Josef Siess</i>
16:20	CIP T02	Am Anfang war alles leicht <i>Richard Zemann</i>
16:40	CIP T03	Mut zur Selbstständigkeit – realistisch oder blauäugig? <i>Doris Steinmüller-Nethl</i>
17:00	CIP T04	On-boarding: Worauf neue Mitarbeiter im Unternehmen achten [soll(t)en] <i>Josef Siess and Elisabeth Schwab</i>
17:20		Ende der Veranstaltung / End of session

Astro/ExoLife Poster

Donnerstag/Thursday, 25.09.2014, Schloss Pöllau, 18:00-19:30

ID	Astro/ExoLife Poster Chair: NN
EXOL P01	Including new Cassini's Gravity Measurements into Interior Structure Models of Enceladus <i>Ruth-Sophie Taubner, Johannes Leitner, Maria Firneis and Regina Hitzberger</i>
EXOL P02	Hotspots and the Heat Budget of Venus <i>Elisabeth Fahrngruber, Johannes Leitner and Maria Firneis</i>
EXOL P03	Possible Water Flow Interaction of Rivers, Lakes and Oceans on Mars <i>Gabor-Imre Kiss, Johannes Leitner and Maria Firneis</i>
EXOL P04	Estimating the Relative Age of Polygonal Impact Craters on Venus <i>Gerhard Wehls, Johannes Leitner and Maria Firneis</i>

Pöllauer Tage der Physikgeschichte

„Und dennoch bewegen sie sich ...“ – Boltzmann-Tagung

Freitag/Friday, 26.09.2014, 9-17:30, Refektorium Schloss Pöllau

Zeit time	ID	Boltzmann-Tagung Chair: Peter Maria Schuster
09:00	B T01	Maxwell's Dämon: Seine Historie und Entzauberung im Wechselspiel von Thermodynamik und Informationswissenschaften <i>Heinz Krenn</i>
09:45	B T02	Irreversibilität: von der Boltzmann-Gleichung zu den Fluktuationstheoremen <i>Christoph Dellago</i>
10:30 10:59		Kaffeepause / Coffee break
Zeit time	ID	Boltzmann-Tagung Chair: Walter Kutschera
11:00	B T03	Josef Stefan, Revolutionär und Pionier der Atomistik der Materie – Wege zum Verständnis der Bewegung der Atome <i>Gero Vogl</i>
11:45	B T04	Die „Perle“ Stefan-Boltzmann-Gesetz <i>Heinrich Mitter</i>
12:30 13:59		Mittagspause / Lunch break
Zeit time	ID	Boltzmann-Tagung Chair: Heinz Krenn
14:00	B T05	Geschichte der Atomhypothese <i>Sonja Draxler and Max E. Lippitsch</i>
14:45	B T06	Entropie ohne Atome <i>Jakob Yngvason</i>
15:30 15:59		Kaffeepause / Coffee break
Zeit time	ID	Boltzmann-Tagung Chair: Jakob Yngvason
16:00	B T07	Das Sortieren von Atomen „One by One“ - Boltzmanns Vermächtnis in der Massenspektrometrie <i>Walter Kutschera</i>
16:45	B T08	Evolution der Kooperation <i>Karl Sigmund</i>
17:30		Ende der Veranstaltung / End of session
18:00 19:15		Umtrunk und Ausstellungsbesuch ECHOPHYSICS
19:30 - 20:30	A T03	Öffentlicher Abendvortrag: Festsaal Schloss Pöllau Univ.-Prof. Dr. Peter Schuster <i>Institut für Theoretische Chemie, Universität Wien</i> Evolution gesehen durch die Brillen der Physiker und der Biologen

GEP

Samstag/Saturday, 27.09.2014, 9-13, Refektorium Schloss Pöllau

Zeit time	ID	GEP Chair: Peter M. Schuster
09:00	GEP T01	Die ersten Galvanometer in der Zeit 1820 bis 1840 <i>Franz Sachslehner</i>
09:30	GEP T02	Medizinische Physik – Physik im Dienste der Medizin. Der österreichische Medizinphysiker Dr. Fritz Hawliczek <i>Werner Schmidt and Ferdinand Steger</i>
10:00	GEP T03	Halbleiter-Dioden zur Detektion von Radarsignalen – Entwicklung in den USA und in Deutschland 1940- 1948 <i>Franz Pichler</i>
10:30 10:59		Kaffeepause / Coffee break
Zeit time	ID	GEP Chair: Heinz Krenn
11:00	GEP T04	Meteorologische Forschung an der Universität Graz während des 2. Weltkriegs <i>Bruno Besser</i>
11:30	GEP T05	Peter Salcher – Other works carried out in Fiume (Rijeka) <i>Ana Alebić-Juretić</i>
12:00	GEP T06	Case study of solar eclipse occurred on 10th July 1600 <i>Mohammed Boudjada and Bruno Besser</i>
12:30	GEP T07	Experimentally verified violation of the law of reflection directly disproves length-contraction <i>Karl Mocnik</i>
13:00		Ende der Veranstaltung / End of session
13:15 – 14:15		Ausstellungsbesuch ECHOPHYSICS