1. Photon Impact

1.1 Weak Field

We P1 Photodissociation of chlorophyll monoanions studied using an electrostatic storage ring

Manabu Saito, Manabu Saito, Koji Noda, Masami Lintuluoto

We P2 Double photoionization of dimethyl disulfide studied by ES-PEPIPICO

Lucia Helena Coutinho, Minna Patanen, Grazieli Simões, Liu Xiaojing, Flavio Rodrigues, Flavio Rodrigues, Rafael Bernini, Catalin Miron, Gerardo Souza

We P3 Deep Core Excitation of SF_6 around the sulphur K-edge.

Anderson Herbert de Abreu Gomes, Wania Wolff, Nathalia Ferreira, Geraldo Sigaud, Hugo Luna, Katiane Alcantara, Antonio Santos

We P4 Photostability studies of prebiotic molecules at the VUV region

Helder Tanaka, Aline Medina, Manoel Gustavo, Luiz Antonio, Frederico Prudente, Ricardo Marinho

We P5 Photo-fragmentation and photo-electron spectroscopy of isolated biochrompohores

Yoni Toker

We P6 Atom-fullerene forward and backward inter-Coulombic decay (ICD) resonances in the photoionization of $Ar@C_{60}$

Mohammad Javani, Mohamed Madjet, Himadri Chakraborty, Steve Manson

We P7 Photoionization of bonding and antibonding-type atom-fullerene hybrid states: $Zn@C_{60}$ versus $Cd@C_{60}$

Mohammad Javani, Ruma De, Himadri Chakraborty, Steve Manson

We P8 Effects of inter-fullerene hybridization on plasmonic and oscillatory photoemission spectra of $C_{60}@C_{240}$

Ruma De, Meghan McCreary, Himadri Chakraborty

We P9 (e,2e) and (γ,2e) experiments on C_{60}

Paola Bolognesi, Yaroslav Pavlyukh, Michael Schüler, Jamal Berakdar, Lorenzo Avaldi

We P10 Photoionization of helium inside small fullerenes ($He@C_{28}$, C_{32}, C_{40}, C_{44}, C_{50})

Mohammad Javani, Himadri Chakraborty, Steven Manson

We P11 Photoionization of Xe inside a C_{60}^{+} cage: a single-molecule electron interferometer

Nagendra Aryal, Kiran Baral, David Macaluso, Chris Thomas, Jonas Hellhund, David Kilcoyne, Ramaz Lomsadze, Alfred Mueller, Stefan Schippers, Ronald Phaneuf

We P12 Analysis of ionic fragment size distribution in collision of nanosecond laser with the C_{60} molecule

Dongbin Qian, Xinwen Ma, Dacheng Zhang, Bin Li, Xiaolong Zhu, Weiqiang Wen, Huiping Liu

We P13 Measurement of the Electron Affinity of Gallium and the Fine Structure of Ga^{-} using Infrared Photodetachment Threshold Spectroscopy

N.D. Gibson, C.W. Walter, C.T. Crocker, J.N. Yukich

We P14 Complete pathways including direct double decay processes

Jiaolong Zeng

We P15 Single Photoionization of Potassium (K)

Rajesh Kumar, D.D. Singh, S. Kumar

We P32 Resonance-Enhanced X-ray Multiple Ionization of Heavy Atoms at LCLS

Benedikt Rudek, Daniel Rolles

We P33 Electronic and nuclear dynamics in multiphoton X-ray ionization of molecules

Benjamin Erk, Artem Rudenko, Daniel Rolles

1.2 Strong Field

We P16 Stark effect in neutral hydrogen by direct integration of the Hamiltonian in parabolic coordinates

Luis Fernandez-Menchero, Hugh Summers

We P17 Creation of quasi-one-dimensional high-n strontium Rydberg atoms

M. Hiller, S. Yoshida, J. Burgdoerfer, S. Ye, X. Zhang, F. B. Dunnin

We P18 Dual Kinetic Balance Approach to Basis-Set Expansions for axially symmetric Dirac equation

Efim Rozenbaum, Vladimir Shabaev, Ksenia Sosnova, Dmitry Telnov

We P19 Clocking ultrafast wave packet dynamics in H_2 by using UV pump - UV probe schemes

Alberto Gonzalez Castrillo, Alicia Palacios Cañas, Fernando Martín García

We P20 Exterior complex scaling method in TDDFT: HHG of Ar atoms in intense laser fields

Ksenia Sosnova, Dmitry Telnov, Efim Rozenbaum, Shih-I Chu

We P21 Time delay in atomic photoionization with circularly polarized light

Anatoli Kheifets, Igor Ivanov

We P22 Atto-second time-delay in single and double photoionization of noble gas atoms

Anatoli Kheifets

We P23 Attosecond buildup of collective response in fullerenes

Jamla Berakdar

We P24 Optimization of Attosecond XUV Pulses

Xiaohong Han, Amna Zahid, Dane Laban, Igor Litvinyuk, Dave Kielpinski, Robert Sang

We P25 Development of a carrier-envelope phase stabilized, few-cycle laser system for novel precision spectroscopy in the time domain

Tsuneto Kanai, Tomoya Mizunov, Toshiyuki Azuma

We P28 Spatial splitting of femtosecond laser pulse induced by infrared plasma grating

Zuoye Liu, Bitao Hu

We P29 Photoelectron spectra of gas target in circular polarization intense laser field

Tomoya Mizuno, Tsuneto Kanai, Toshiyuki Azuma

We P30 Combined Effect of Debye Plasma Environment and External Magnetic Field

Siliang Zeng

We P31 Intense-Field Ionization of Monoaromatic Hydrocarbons using Radiation Pulses of Ultrashort Duration: Monohalobenzenes and Azabenzenes

Cornelis Uiterwaal

2. Lepton Impact

2.1 Electron-Atom Collisions

We P49 Relativistic quantum mechanical calculations of electron-impact broadening parameters
Bin Duan

2.2 Electron-Molecule/Cluster Collisions

We P50 Total ionization cross-sections for Si_2, SiC, SiC_2 and Si_2C molecules
C.V. Pandya

We P51 Total cross section of methyl halides by electron impact
Rahla Naghma, Bobby Antony

We P52 Electron transfer induced fragmentation of acetic acid
Filipe Ferreira da Silva, Guilherme Meneses, Diogo Almeida, Paulo Limao-Vieira

We P53 Interaction based on electron density in low-energy electron scattering
Hao Feng, Jia Fu, Weiguo Sun, Qunchao Fan

We P54 A comparative study of Dissociative Ionization of N_2 and CO
Amrendra Pandey, Bhas Bapat, K R Shamsundar

We P55 Electron interactions with dry ice: relevance in Martian polar caps and clouds
Siddharth Pandya, K. N. Joshipura, B. G. Vaishnav

We P56 Vibrational autodetachment of sulfur hexafluoride anions in a cryogenic ion beam trap
Sebastian Menk, Klaus Blaum, Swarup Das, Michael Wayne, Michael Lange, Manas Mukherjee, Roland Repnow, Dirk Schwalm, Robert Von, Andreas Wolf

We P57 Ionic fragmentation of CO and H_2O under impact of 10 keV electrons: kinetic energy release distributions
Raj Singh

2.3 Electron-Ion Collisions

We P58 R-matrix calculations for the electron-impact excitation of the Be-like isoelectronic sequence.

Luis Fernandez-Menchero, Nigel Badnell

We P59 Electron impact multiple ionization of C^+, N^+ and O^+ ions

Julien Lecointre, Konstantin Kouzakov, Dragoljub Belic, Pierre Defrance, Yuri Popov, Viatcheslav Shevelko

We P60 Series of Singlet and Triplet Doubly-Excited States of C^{4+} below the N=2 Threshold of C^{5+}

T T Gien

We P61 Plasma Effect on Fast-Electron-Impact-Ionization of Hydrogen-like Ions

Yueying Qi

We P62 Spectroscopic study of bismuth ions with an electron beam ion trap

Hayato Ohashi, Hiroyuki Sakaue, Nobuyuki Nakamura

We P63 An effective eigenchannel R-matrix calculation of electron-ion scattering processes with spectroscopic precision

Xiang Gao, Jia-Ming Li

We P64 Spectroscopy of highly charged tungsten ions with a compact electron beam ion trap

Hiroyuki Sakaue, Izumi Murakami, Daiji Kato, Nobuyuki Nakamura

We P65 Dissociative excitation and vibrational excitation of Cl^{2+}

Mingwu Zhang

2.4 Collision Involving Exotic particles

We P66 Low energy scattering of positron by H_2O

J L S Lino

We P67 Dynamics of $e^+ + H(ns) \rightarrow Ps(n's) + p$ with screened Coulomb potentials

Sujay Nayek, Arijit Ghoshal

We P68 Differential Cross Sections for Ionization of Argon by 1 keV Positron and Electron Impact

Oscar G de Lucio Morales, Jared Gavin, Robert D DuBois

We P69 Antiproton helium collisions in time-dependent density functional theory

Tom Kirchner, Matthew Baxter

We P70 Different representations of continuum in the positron-hydrogen scattering problem
Jackson Bailey, Alisher Kadyrov, Igor Bray

We P71 On the differences in double ionization of atoms by particles and antiparticles
Robert DuBois, Steven Manson, Toni Santos

We P72 Cross sections for positronium formation in the collision of proton by hydrogen molecule
Mohammad Bolorizadeh, Reza Fathi, Farideh Shojaei Akbarabadi

We P73 Suppression and Enhancement of Vibrational Feshbach Resonances in Positron Annihilation on Molecules
J. R. Danielson, A. C. L. Jones, M. R. Natisin, C. M. Surko

We P74 Measuring Positron-atom Binding Energies through Laser-assisted Photo-recombination
C. M. Surko, J. R. Danielson, G. F. Gribakin, R. E. Continetti

We P75 Long range interaction of antiprotonic helium with helium
Quanlong Tian, Zhen-Xiang Zhong

3. Heavy Ion Impact

3.1 Ion-Atom Collisions

We P80 Electron spectroscopy at the high-energy endpoint of electron-nucleus bremsstrahlung
Pierre-Michel Hillenbrand, Siegbert Hagmann

We P81 Electron- and proton-impact excitation of the heaviest H- and He-like ions
Alexandre Gumberidze

We P82 State Selective Charge Transfer and Ionization in Low energy Rydberg Ion – Rydberg Atom (Li, Na, K, Rb, Cs) Collisions
Mukesh Kumar Pandey, Y. K. Ho

We P83 4fσ excitation for L-vacancy production of Mo in collision of highly charged xenon ions near Bohr Velocity
Ren Jieru, Zhao Yongtao, Zhou Xianming, Cheng Rui, Wang Yuyu, Wang Xing, Lei Yu, Sun Yuanbo, Li Yongfeng, Yu Yang, Xu Ge

3.2 Atom-atom/ion-ion Collisions

We P84 First results from the Double ElectroStatic Ion-Ring ExpEriment, DESIREE

Michael Gatchell, Henning T. Schmidt, John D. Alexander, Guillermo Andler, Mikael Björkhage, Mikael Blom, Lars Brännholm, Erik Bäckström, Tao Chen, Wolf Geppert, Per Halldén, Dag Hanstorp,Fredrik Hellberg, Anders Källberg, Mats Larsson, Sven Leontein, Leif Liljeby, Patrik Löfgren, Sven Mannervik, Andras Paál, Peter Reinhed, Karl-Gunnar Rensfelt, Stefan Rosén, Fabian Seitz,Ansgar Simonsson, Mark H. Stockett, Richard D. Thomas, Henning Zettergren, Henrik Cederquist

3.3 Ion-Molecule/clusters or Atom-Molecule/clusters Collisions

We P85 Single ionization of diatomic molecules by bare ion impact

Malay Purkait, Chittaranjan Mandal

We P86 New process observed in collisions between highly charged protonated protein and Xe^{8+}, Xe^{5+}, He^{2+} ions

Serge Martin, Li Chen , Richard Bredy, Jerome Bernard, Celine Ortega, Philippe Dugourd, Rodolphe Antoine, Arnault Vernier, Thomas Schlathölter, Ouve Gonzalez Maganad, Gert Reitsma

We P87 Ion impact induced ionization/fragmentation dynamics of rare gas dimmers

Markus Schoeffler, H.-K. Kim, J. Titze, F. Trinter, M. Waitz, J. Voigtsberger, H. Sann, M. Mecke, C. Struck, U. Lenz,D. Metz, A. Jung, M. Odenweller, N. Neumann, B. Ulrich, R. Costa, N. Petridis, S. Schoessler,K. Ullmann, R. Grisenti, A. Czasch, O. Jagutzki, L. Schmidt, T. Jahnke, H. Schmidt, J. Becht,H. Gassert, H. Merabet J. Rangama, C. L. Zhou, A. Cassimi, R. Doerner

We P88 Spectroscopy of weakly-bound complexes in highly excited electronic states: the He--$I_2(E^3P_g)$ ion-pair state

Rita Prosmiti, Apostolos Kalemos, Alvaro Valdes

We P89 Spectral simulations and vibrational dynamics of the fluxional H_5^+ cation and its isotopologues: signatures of the shared-proton motions

Rita Prosmiti, Alvaro Valdes, Gerardo Delgado-Barrio

We P90 Theoretical study on covalently-bonded fullerene dimers C_{118} and C_{119} formed through fullerene collisions

Yang Wang,H. Zettergren, P. Rousseau, F. Seitz, T. Chen, M. Gatchell, J. D. Alexander, M. H. Stockett,J. Rangama, J. Y. Chesnel, M. Capron, J. C. Poully, A. Domaracka, A. Méry, S. Maclot, H. T. Schmidt,L. Adoui, A. G. G. M, B. A. Huber, H. Cederquist, M. Alcamí, F. Martín

We P91 Asymmetric electron capture in HCI collisions with rare gas dimmers

Amine CASSIMI, Arnaud Leredde, Xavier Fléchard, Haruo Shiromaru, Jimmy Rangama, Chun Lin Zhou,Wael Iskandar, Stéphane Guillous, Dominique Hennecart, Alain Mery, Benoit Gervais, Jun Matsumoto

We P92 Time Evolution of the internal energy distribution of molecules studied in an electrostatic storage ring, the Mini-Ring

Céline Ortega, Li Chen, Mingchao Ji, Richard Bredy, Jérôme Bernard, Bruno Concina, Guillaume Montagne, Christine Joblin, Amine Cassimi, Yvette Ngono-Ravache, Serge Martin

We P93 Excitation energy distributions and statistical dissociation of C_{70}^{2+} prepared in collisions with F^+ ions at 3 keV

Richard Bredy, Céline Ortega, Mingchao Ji, Li Chen, Jerome Bernard, Guillaume Montagne, Dongbin Qian, Bin Li, Xinwen Ma, Serge Martin

We P94 Stopping and ionization cross section of CH_4 and OH_2 by impact of protons: use of one-center orbital method

Jorge Miraglia, Claudia Carmen Montanari

We P95 Modeling electron and energy transfer processes in collisions between ions and Polycyclic Aromatic Hydrocarbon molecules

Tao Chen,John Alexander, Björn Forsberg, Alf Pettersson, Michael Gatchell, Henrik Cederquist, Henning Zettergren

We P96 Growth of ice nanoparticles via uptake of individual molecules: pickup cross sections

Juraj Fedor, Jozef Lengyel, Jaroslav Kocisek, Viktoryia Poterya, Andryi Pysanenko, Pavla Svrckova, Michal Farnik

We P97 Fragmentation of CH_4 molecules induced by 46 keV/u N^+ and N_2^+ projectiles

Sandor Kovacs

We P98 CNO− formation through selective bond cleavage

Filipe Ferreira da Silva, Diogo Almeida, Gustavo Garcia, Paulo Limao-Vieira

We P99 Ions colliding with weakly bound clusters of fullerenes

Henning Zettergren, F. Seitz, P. Rousseau, Y. Wang, T. Chen, M. Gatchell, J. D. Alexander, M. H. Stockett, J. Rangama, J. Y. Chesnel, M. Capron, J. C. Poully, A. Domaracka, A Mery, S. Maclot, H. T. Schmidt, L. Adoui, M Alcami, A. G. G. M, F. Martin, B. A. Huber, H. Cederquist

We P100 Collisions between Polycyclic Aromatic Hydrocarbon ions and noble gases

Mark Stockett, John Alexander, Uldis Berzins, Tao Chen, Khadijah Farid, Michael Gatchell, Anders Johansson, Kostiantyn Kulyk, Henning Schmidt, Henning Zettergren, Henrik Cederquist

We P101 Anion production in high-velocity cluster-atom collisions; the electron capture process revisited

Karine Beroff, Marin Chabot, Guillaume Martinet, Thomas Pino, Sandra Bouneau, Arnaud Le, Géraldine Feraud, Nga Do, Florent Calvo, Christian Bordas, Franck Lepine

We P102 Fragmentation of amino acids induced by collisions with low-energy highly charged ions

Fernando Martin, Sylvain Maclot, Alicja Domaracka, Lamri Adoui, Manuel Alcamí, Patrick Rousseau, Sergio Díaz-Tendero, Bernd A. Huber

We P103 Vibrational ground state properties of the H_7^+/D_7^+ clusters

Rita Prosmiti, Patricia Barragan, Ricardo Perez, Chen Quo, Yimin Wang, Joel Bowman

We P104 Fragmentation dynamics of excited ionized polycyclic aromatic hydrocarbons

Manuel Alcami, Chiara Paris, Humberto Siva, Sergio Díaz-Tendero, Mathias Rapacioli, Fernand Spiegelman, Fernando Martin

We P105 Ionization of Coronene by fast heavy ions: electron DDCS

Shubhadeep Biswas

We P106 The stable CO^{2+} ions produced in energetic O^{5+} on CO collisions

Bin Li, Xinwen Ma, Xiaolong Zhu, Wentian Feng, Yong Gao, Ruitian Zhang, Dalong Guo, Shaofeng Zhang, Huiping Liu, Shulong Wang, Ying Zhang, Shuncheng

Yan, Shenyue Xu, Pengju Zhang, Dongbin Qian,Dongmei Zhao, Weiqiang Wen, Dacheng Zhang, Jie Yang

We P107 Laboratory studies into the cosmic origins of organic chemistry
Nathalie de Ruette, Kenneth A. Miller, Aodh P. O'Connor, Julia Stützel, Xavier Urbain, Daniel W. Savin

We P108 Mobilities of Li^+-attached Butanol Isomers in He Gas
Karin Takahashi

4. Ultracold Atomic and Molecular Physics

We P35 Toward Laser Cooling of Negative Ions: Observations of Multiple Bound-Bound Transitions in the Negative Ion of Lanthanum La^-
C.W. Walter

We P36 Towards Laser Cooling of Negative Ions
Elena Jordan

We P37 State-selection via the quantum coherent control of laser pulse
Suyu Li, Fuming Guo, Yujun Yang, Mingxing Jin

We P38 Measurement of Critical Correlations in an Ultracold Bose Gas by Means of a Temporal Talbot-Lau Interferometery
Xuzong Chen

We P39 Laser cooling of stored relativistic ion beams with large momentum spreads using a laser system with a wide scanning range
Weiqiang Wen, Danyal Winters, Tobias Beck, Benjamin Rein, Thomas Walther, Sascha Tichelmann, Gerhard Birkl, Rodolfo Sanchez-Alarcon, Johannes Ullmann, Matthias Lochmann, Wilfried Nörtershäuser, Colin Clark, Christophor Kozhuharov, Thomas Kühl, Shahab Sanjari, Yuri Litvinov, Tino Giacomini, Markus Steck, Christina Dimopoulou, Fritz Nolden, Thomas Stöhlker, Jie Yang, Dacheng Zhang, Xinwen Ma, Michael Seltmann, Matthias Siebold, Ulrich Schramm, Michael Bussmann

We P40 Modification of the temperature of trapped cold ^{87}Rb atoms by an ionizing process
Yaping Ruan, Fengdong Jia, Zhen Sun, Ping Xue, Xiangyuan Xu, Xingcan Dai, Zhiping Zhong

We P41 Amplification via electromagnetically induced transparency in the

dressed atom basis

Fengdong Jia, Zhen Sun, Longwei Liu, Yaping Ruan, Shuangfei Lv, Xiangyuan Xu, Xingcan Dai, Zhiping Zhong

We P42 Difference in cooling dynamics between photo-excited C_6^- and C_6H^-

Gen Ito

6. Experimental Techniques

We P43 First light on 3d photoionization of multiply charged xenon ions: a new photon-ion merged beam setup at PETRA III

Sandor Ricz, Stefan Schippers, Ticia Buhr, Kristof Holste, Alexander Borovik, Jonas Hellhund, Heinz-Jürgen Schäfer, Daniel Schury, Stephan Klumpp, Karolin Mertens, Michael Martins, Roman Flesch, Georg Ulrich, Eckart Rühl, Julian Lower, Till Jahnke, Daniel Metz, Lothar Schmidt, Markus Schöffler, Joshua Williams, Reinhard Dörner, Leif Glaser, Frank Scholz, Jörn Seltmann, Jens Viefhaus, Alexander Dorn, Andreas Wolf, Joachim Ullrich, Alfred Mueller

We P76 Variable entry Biased Paracentric Hemispherical Deflector: Experimental results on energy resolution for different entry positions

Mevlut Dogan, Melike Ulu, Giannis Gennerakis, Theo Zouros

We P77 High-power electron gun for electron-ion crossed-beams experiments

Alfred Mueller, Stefan Schippers, Jörg Jacobi, Wei Shi, Alexander Borovik Jr

We P109 SMILETRAP –A Double Penning Trap for High Precision Mass Measurements with Highly Charged Ions

Yao Ke, Yaming Zou, Reinhold Schuch,

We P110 SPARC Experiments in the High-Energy Storage Ring HESR at FAIR

Yuri Litvinov, Thomas Stöhlker

We P111 Detection of atomic and molecular MeV projectiles using an x-ray CCD camera

Marin Chabot, Guillaume Martinet, Karine Béroff, Thomas Pino, Sandra Bouneau

We P112 A setup for ion-beam emittance measurements employed to diagnose plasma ion thrusters

Alfred Mueller, Kristof Holste, Stefan Schippers

7. Related Topics

We P26 Dirac-Fock plus core-polarization calculations of electronic quadrupole moments of D states for single ion clocks

Chengbin Li, Yongbo Tang, Haoxue Qiao, Tingyun Shi

We P27 Ultrafast dynamics of hollow atoms based on master equation approach

Yongqiang Li, Cheng Gao, Jianmin Yuan

We P34 X-ray laser spectroscopy with an electron beam ion trap at LCLS

Sven Bernitt, Gregory Brown, Jan Rudolph, Rene Steinbrügge, Alexander Graf, Maurice Leutenegger, Christian Beilmannm, Natalie Hell, Sita Eberle, Sascha Epp, Katharina Kubicek, Volkhard Mäckel, Stefan Schippers, William Schlotter, Martin Simon, Elmar Träbert, Joshua Turner, Steven Kahn, Edward Magee, Alfred Müller, Andrey Surzhykov, Zoltan Harman, Christoph Keitel, Joel Clementson, Frederick Porter, Andy Rasmussen, Joachim Ullrich, Peter Beiersdorfer, José Ramon

We P44 Investigation of Laser-induced breakdown spectroscopy of uranium element

Dacheng Zhang, Ying Zhang, Xiaolong Zhu, Shulong Wang, Jie Yang, Dongmei Zhao, Xinwen Ma

We P45 Inelastic Squared Form Factors of Valence-shell Excitations of Nitrogen Studied by High-resolution Inelastic X-ray Scattering

Peng Yi Geng

We P46 Quasistationary resonances in length and velocity gauges in the context of multiphoton dissociation of HD^+

B. Dutta, S. S. Bhattacharyya

We P47 Spectroscopy of autoionization resonances for lanthanides atoms with account of laser field and chaos effects

Andrey Svinarenko

We P48 Cooperative laser electron-γ-nuclear phenomena in optics and spectroscopy of atoms, molecules and clusters

Alexander Glushkov

We P78 Electron shakeoff following the β^+ decay of trapped $^{35}Ar^+$ ions

Xavier Flechard

We P79 Fundamental Atomic Process in Source Development for Beyond EUV Litho-graphy and “Water Window” imaging

Bowen Li

We P113 Fine-structure energy levels and radiative rates in Si-like Cobalt

Govind Gupta, Alfred Msezane

We P114 Fine-structure energy levels, oscillator strengths and lifetimes in Al-like Chromium

Govind Gupta, Alfred Msezane

We P115 The differential protein expression between 2D and 3D cultures after exposure to C-beam

Gang Xue

We P116 Laser Spectroscopy of the 2s-Hyperfine Splitting in Lithium-like Bismuth

Rodolfo Marcelo Sanchez Alarcon

We P117 Electronic factors for isotope shifts

Michel Godefroid, Thomas Carette, Cédric Nazé, Stephan Fritzsche, Per Jönsson

We P118 Large-scale calculations of the fine structures of 2^3P states for helium-like ions using relativistic configuration interaction method

Yongbo Tang, Chengbin Li, Haoxue Qiao, Tingyun Shi

We P119 Border Between Atomic and Nuclear Physics: Experiments with Stored Highly-Charged Ions

Yuri Litvinov, Fritz Bosch, Christophor Kozhuharov, Xinwen Ma, Thomas Stöhlker, Nicolas Winckler, Hushan Xu,Yuhu Zhang

We P120 Theoretical study on the electronic structure and transition properties of neptunium and its ions

Chenzhong Dong, I. A. Saber, Xiangli Wang, Chenzhong Dong

We P121 Magnetic field induced transitions in Ne- and Be-like ions for plasma diagnostics and double photon decay rate determination

Jon Grumer, Jiguang Li, Wenxian Li, Martin Andersson, Tomas Brage, Roger Hutton, Per Jönsson, Yang Yang, Yaming Zou

We P122 Full relativistic studies of the ground state electronic structure of alkali elements up to Z=119

Deling Zeng, Xiang Gao, Rui Jin, Jia-Ming Li

We P123 Fluorescence active autoionizing states of highly stripped helium-like ions

Tapan kumar mukhopadhyay, Jayanta kumar, S. Bhattacharyya, P. K. Mukherjee, S. Kasthurirangan, J. P. Santos, L. C. Tribedi

We P124 Two-electron atoms under spherical confinement

Sukmahoy Bhattacharyya, J. K. Saha, T. K. Mukhopadhyay

We P125 Electroweak interaction and parity nonconservation in heavy finite Fermi-systems: Spin-dependent effects and weak interaction enhancement

Olga Khetselius

We P126 Theoretical spectroscopy of multicharged ions: Advanced relativistic quantum defect and model potential approach

Tat'yana Florko

We P127 The energy shifts and widths and strong, K-N nuclear interaction corrections in spectroscopy of the hadronic atoms

Anastasiya Shakhman

We P128 X-ray spectroscopy of the pionic atoms: Transition energies and hyperfine structure

Inga Serga

We P129 K Transition Energies and Transition Yields for He-, Li-, Be-, B-like and C-like Lanthanum Ions

Jos é Paulo Santos, Ana Maria, Maria Concei ção, Paul Indelicato, Fernando Parente

We P130 Finite nuclear size effect on hydrogen-like ions

Yonghui Zhang

We P131 MCDF calculation and analysis of M1 lines from tungsten ions in LHD and EBIT plasmas

Fumihiro Koike, Izumi Murakami, Daiji Kato, XiaoBin Ding, Nobuyuki Nakamura, Chihiro Suzuki, Hiroyuki A. Sakaue

We P132 Proton-induced ionization cross sections of isolated nucleobases

C. Champion, M.E. Galassi, P.F. Weck, S. Incerti, M.A. Quinto, Z. Francis, O.A. Fojon, R.D. Rivarola, J. Hanssen

1. Photon Impact

1.1 Weak Field

Th P1 Off center effect on the photoabsorption spectrum of the $Xe@C_{60}$ endohedral fullerene

Zhifan Chen, Alfred Z Msezane

Th P2 Photoabsorption spectrum of the $Ce@C_{82}$ endohedral fullerene

Zhifan Chen, Alfred Z Msezane

Th P3 Single photon double ionization of Helium at 800 eV observation of the Quasi Free Mechanism

Markus Schoeffler, Till Jahnke, Markus Waitz, Florian Trinter, Ute Lenz, Christian Stuck, M. Jones, M. S. Pindzola, A. Landers, Ali Belkacem, C. L. Cocke, James Colgan, Anatoli Kheifets, Igor Bray, Horst Schmidt-Boecking, Reinhard Doerner, Thorsten Weber

Th P4 Continuum-continuum transitions between resonant states using the RABITT technique

Álvaro Jiménez, Luca Argenti, Fernando Martín

Th P5 Dissociation Dynamics and Molecular Imaging of Methane following Photoionization at the Carbon K-Edge

J. B. Williams, C. Trevisan, Till Jahnke, Irina Bocharova, Felix Sturm, C. W. McCurdy, Ali Belkacem, Reinhard Doerner, Thorsten Weber, Allen Landers

Th P6 Photoionization cross section of Fe^{7+} ion

L C Gao, Luyou Xie

Th P7 Evidence for spontaneous oscillations of electron emitter sites: A show case for position entanglement in ordinary space

Burkhard Langer, Rainer Hentges, Markus Braune, Sanja Korica, Jens Viefhaus, Daniel Rolles, Toralf Lischke, André Meißner, Gregor Hartmann, Markus Ilchen, Ralph Püttner, Oliver Kugeler, André Knie, Arno Ehresmann, Omar Al-Dossary, Uwe Becker

Th P8 Recoil induced transition from coherent to randomly oriented target properties

Gregor Hartmann, Markus Braune, Axel Reinköster, Sanja Korica, Toralf Lischke, Meissner, Burkhard Langer, André Knie, Arno Ehresmann, Markus Ilchen, Jens Viefhaus, Max Stammer, Omar Al-Dossary, Uwe Becker

Th P9 Two-photon excitation for H_2X (X=O、S、Se、Te)

Wang Hongbin

Th P10 Fragmentation dynamics of doubly charged methionine and alanine molecules induced by core photoionization

Yang Wang, Dang Trinh, Estefan á Rossich, Michael Huels, Eero It äl ä, Kuno Kooser, Samuli Urpelainen, Edwin Kukk, Manuel Alcam í, Fernando Mart ín

Th P11 Photoelectron Diffraction on Laser-Aligned Molecules

Rebecca Boll, Daniel Rolles

Th P12 Photodissociation of the trifluoroethyl iodide molecule investigated by photoelectron photoion coincidence spectroscopy

Alexsandre Lago, Beatriz da, Patricia Arakaki

Th P13 Dissociation of OCS upon various S(2p) Auger decay transitions

Koushik Saha, Swaroop Banerjee, Bhas Bapat

Th P14 Calculation of potential energy curves and quantum defects of the diatomic hydrides of first-row elements

Chun-Woo Lee, Yeongrok Gim

Th P15 Neutral dissociation dynamics of O_2 in the photon range 14.26-15.20 eV studied by XUV laser pump and UV laser probe method

Yiyong Zhou

Th P16 Photoionization of $Xe@C_{60}$ using R-matrix Methods

Thomas Gorczyca, Muhammet Fatih Hasoglu, Steven Manson, Connor Balance

Th P17 Photoionization-Excitation and Double Photoionization of $He@C_{60}$

Thomas Gorczyca, Teck-Ghee Lee, Michael Pindzola

1.2 Strong Field

Th P18 Interferences effects in resonant laser-atom ionization spectrum

Vladimir Rodriguez, Guillermo Bustamante, Raul Barrachina

Th P19 Control of atomic single and double ionization dynamics using orthogonally polarized two-color laser pulses

L. Zhang，Xinhua Xie，Stefan Roither, Markus Schoeffler，D. Shafir，P. B. Corkum，A. Baltuska, Andre Staudte, Markus Kitzler

Th P20 Molecular isomerization and fragmentation of polyatomic molecules controlled by inner-valence recollision-ionization
K. Doblhoff, Stefan Roither, Markus Schoeffler, D. Kartashov, H. Xu, T. Rathje, G. G. Paulus, A. Baltuska, S. Graefe, Markus Kitzler

Th P21 Selective inner-valence ionization of aligned polyatomic molecules for controlling molecular fragmentation
Xinhua Xie, K. Doblhoff, H. Xu, Stefan Roither, A. Iwasaki, Markus Schoeffler, D. Kartashov, K. Yamanouchi, A. Baltuska, S. Graefe, Markus Kitzler

Th P22 Clocking molecular fragmentation of N_2 with XUV pump-probe experiments
Y. Zh, A. Senftleben, K. Schnorr, G. Schmid, M. Kurka, A. Rudenko, L. Foucar, M. Kübel, M.F. Kling, K. Ueda, R. Treusch, J. Ullrich, C.D. Schröter, Y.H. Jiang , R. Moshammer

Th P23 Control of Cyclopentanone Fragmentation using Shaped Femtosecond Laser Pulses
Chen Zhou, Song Yao-Dong, Hu Zhan

Th P24 Control of electron localization in the dissociation of H_2^+ using orthogonally polarized two-color sequential laser pulses
Feng He

2. Lepton Impact

2.1 Electron-Atom Collisions

Th P40 The $1sn_1l_1n_2l_2$ electron spectra of lithium atoms
Alicija Kupliauskiene, Alexandr Borovik

Th P41 The $4p^6$ core excitation of Rb_2 by low energy electron impact
Alicija Kupliauskiene, Alexandr Borovik, Viktoria Roman

Th P42 The $2p^6$ autoionization cross section of Na atoms excited by low-energy electron impact
Alicija Kupliauskiene, Alexandr Borovik

Th P43 Effect of exchange and absorption potentials on the distorted wave calculations for electron impact excitation of autoionizing state of lithium
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Th P44 Non homogeneous solution to a Coulomb Schrodinger equation as a basis set for scattering problems

Dario M. Mitnik, Lorenzo Ancarani, Jessica Del Punta, Marcelo J. Ambrosio, Gustavo Gasaneo,

S. A. Zaytsev

Th P45 Large-scale B-spline R-matrix with pseudostates

Oleg Zatsarinny, Yang Wang, Klaus Bartschat

Th P46 Electronic relativistic effect on K-shell ionization by electron impact

Takeshi Mukoyama

Th P47 Electron impact multiple ionization

Jorge Miraglia, Claudia Carmen Montanari

Th P48 Spin asymmetries for electron-thallium scattering calculated with the relativistic convergent close-coupling method

Dmitry Fursa, Igor Bray, Chris Bostock

Th P49 Electron-impact ionization of neon at 100 eV: A benchmark comparison between experiment and theory for a complex target

Alexander Dorn, Joachim Ullrich, Xueguang Ren, Arne Senftleben, Klaus Bartschat, Oleg Zatsarinny, Thomas Pflüger

Th P50 The calculation of low-energy electron-impact excitation cross sections of Helium from excited states

Xiang Gao, Xiao-Ying Han, Jia-Ming Li, De-Ling Zeng

Th P51 Electron impact excitation of xenon from the metastable state to the levels of $5p^5 7p$ configuration

Chenzhong Dong, Zhanbin Chen

Th P52 Auger Process in Cs

Satya Narayan Tiwary

Th P53 Coincidence studies of electronic excitation of Zn atoms

Mariusz Piwinski

Th P54 Near-threshold electron elastic scattering cross sections for Ta, W, Re, Mo, Tc and Rh atoms: Determination of electron affinities and Ramsauer-Townsend minima

Alfred Z Msezane, Dmitri Sokolovski, Zineb Felfli

Th P55 Bremsstrahlung polarization correlations and their application for

polarimetry of electron beams
Stanislav Tashenov

Th P56 Total cross sections for electron scattering from He and Ne in cold electron collisions
Keisuke Shigemura

2.2 Electron-Molecule/Cluster Collisions

Th P57 Electron interactions with Radicals of Technological Interest
Darryl Jones, Michael Brunger

Th P58 Electron impact differential, elastic, inelastic, ionisation, excitation and total cross section of NF_3 from 1 meV to 10 keV energy range
Biplab Goswami, Minaxi Vinodkimar, Bobby Antony

Th P59 Total ionization cross-sections for fluoro acetylene molecule
C. V. Pandya

Th P60 Autodetachment dynamics of acrylonitrile anion revealed by 2D electron impact spectra
Khrystyna Regeta, Michael Allan

Th P61 Development of time-resolved electron momentum spectroscopy: a tool for visualizing the motion of electrons during a chemical reaction
Masakazu Yamazaki, Yuji Kasai, Keiya Oishi, Hiroyuki Nakazawa, Masahiko Takahashi

Th P62 Monte Carlo study of transport parameters for electrons in CO gas
Mirjana Vojnovic, Miroslav Popovic, Miroslav Ristic, Milos Vicic, Goran Poparic

Th P63 Investigation of ionization dynamics of nitrogen molecule by electron impact
Don Madison, Mevlut Dogan, Melike Ulu, Cinar Bal, Hari Chaluvadi, Zehra Ozer

Th P64 Young’s Double Slit Interference for Quantum Particles
Don Madison, B. Aktas, Mevlut Dogan, Melike Ulu, Zehra Ozer, Hari Chaluvadi

Th P65 Ring-puckering effects on the electron momentum distributions of valence or-bitals of oxetane
Jing Yang

Th P66 Computation of electron impact total cross sections for ethanol over

wide range energy

Avani Barot, Minxi Vinodkumar

Th P67 Collisional production of metastable hydrogen atoms from cold H_2

Aline Medina, Gabriel Rahmat, Ginette Jalbert, Carlos Renato, Fabio Zappa, Rodrigo Nascimento, Nelson de Castro Faria, Jacques Robert

Th P68 Electron Impact total ionization cross sections for Berylium and Berylium Hydride on electron impact from threshold to 2 keV

Bhutadia Harshadkumar

Th P69 An experimental investigation of the dissociative ionization process of argon cluster ions induced by electron impact

Pengju Zhang, Xinwen Ma, Shuncheng Yan, Shenyue Xu, Shaofeng Zhang, Xiaolong Zhu, Bin Li, Wentian Feng, Dongbin Qian,Ruitian Zhang, Dalong Guo, Weiqiang Wen, Dacheng Zhang, Jie Yang, Dongmei Zhao, Huiping Liu

2.3 Electron-Ion Collisions

Th P70 Dissociative recombination measurements on halogen-hydride ions relevant for astrochemistry

Oldrich Novotny, Arno Becker, Henrik Buhr, Wolf Geppert, Mathias Hamberg, Claude Krantz, Holger Kreckel, Dirk Schwalm, Kaija Spruck, Julia Stutzel, Andreas Wolf, Bian Yang, Daniel Savin

Th P71 Doubly-excited $2p^2\ ^1S^e$ state of helium in astrophysical plasmas

Pinghui Jiang, Sabyasachi Kar

Th P72 Efficiency improvements for the Generalized Sturmian method on scattering problems

Dario M. Mitnik, Flavio Colavecchia, Gustavo Gasaneo, Marcelo Ambrosio

Th P73 Nonperturbative electron-ion scattering theory incorporating the Møller interaction

Dmitry Fursa, Igor Bray, Chris Bostock

Th P74 Theoretical study of inner-shell electron-impact excitation of highly charged ions: Alignment and angular distribution of electron emission

Chenzhong Dong, Yinglong Shi

Th P75 Effects of an ambient radiation field on charge state distribution of

NLTE carbon plasmas
Cheng Gao, Fengtao Jin and Jiaolong Zeng

Th P76 Electron-impact ionization of multiply charged tungsten ions
Alfred Mueller, Stefan Schippers, Joachim Rausch, Mohammad Gharaibeh, Alexander Borovik Jr, Arno Becker, Kaija Spruck

Th P77 Ionization of hydrogenic ions by the impact of electrons, protons and positrons
Anup Das

2.4 Collision Involving Exotic particles

Th P78 L-shell x-ray production cross sections of Ag, In and Sn by positron impact
Karoly Tokes, T. Mukoyama, Y. Nagashima

Th P79 Low energy positron collisions with NH_3 molecules
Wagner Tenfen, Danielle Tenfen, Felipe Arretche, Kahio Mazon, Sergio Michelin

Th P80 Interference between direct ionisation and positronium formation in continuum in positron-hydrogen collisions
Alisher Kadyrov

Th P81 Low energy elastic positron collisions with OCS molecules
Wagner Tenfen, Danielle Tenfen, Felipe Arretche, Kahio Mazon, Sergio Michelin

Th P82 Ionization of He by slow antiproton impact: total and differential ionization cross sections
Sandor Borbely

Th P83 Cryogenic Positron Beams for Atomic Physics Experiments
M. R. Natisin, J. R. Danielson, C. M. Surko

3. Heavy Ion Impact
3.1 Ion-Atom Collisions

Th P89 Differential cross sections for two electron transfer processes in ionhelium-like atom collisions
Malay Purkait, Rakesh Samanta

Th P90 Differential cross sections for four-body single charge transfer

processes

Malay Purkait, Sujoy Jana

Th P91 Electron emission in collisions between dressed Al^{q+} ions with He targets

Roberto Rivarola, Juan Fiol, Daniel Fregenal, Pablo Daniel, Wania Wolff, Erik Horsdal, Sergio Suárez, Juan Manuel Monti, Sergio Suárez

Th P92 Inelastic processes in K^+- He collisions in energy range 0.7-10 keV

Ramaz Lomsadze, Malkhaz Gochitashvili, Roman Kezerashvili, Nugzar Mosulishvili, Alfred Müller, Ronald Phaneuf

Th P93 Charge transfer between slow highly charge xenon ion and magnesium atom

Weidong Chen, Gleb Vorobyev, Frank Herfurth, Dalong Guo, Thomas Stoehlker

Th P94 Dynamics of H^++ H ionization in plasmas

Lingyu Zhang

Th P95 X-ray Emission Measurements following Charge Exchange between C^{6+} and He

Dallas Wulf, Kelsey Morgan, Dan McCammon, Vola Andrianarijaona, Dave Seely, Charles Havener

Th P96 Projectile q-dependence of electron DDCS in fast ion-He atom collision

Shubhadeep Biswas

Th P97 Correlation diagrams for inner shell couplings: MO picture

Punita Verma, Bharti Jarwal, Akhil Jhingan, Tapan Nandi, Aboni Mandal

Th P98 Theoretical investigations of collisions between highly charged ions and atomic H and He

Yong Wu

Th P99 Combination of the final element and quantum trajectory methods for numerical solution of the wave equation

Vasily Khodyrev

Th P100 First observation of correlated photons emitted by heavy highly charged ions in the process of radiative recombination

Stanislav Tashenov

Th P101 Classical calculation of multiple ionization cross sections of noble gases near Bragg peak energies

Shao Jianxiong, Zhou Man, Zou Xianrong, Chen Ximeng

Th P102 RTE induced x-ray emission in berylliumlike uranium

Sergiy Trotsenko

Th P103 Experimental study on collisions between anions and noble gases

Xuemei Zhang

Th P104 Charge transfer and ionization of He^{2+}- Ar collisions in the energy range of 4 - 300 keV/amu

Chunli Zhang

Th P125 Energy approach to atoms and nuclei in super strong laser field and resonance phenomena in heavy ions collisions

Alexander Glushkov

Th P128 Transfer-ionization in relativistic collisions with highly charged ions.

Evgeniia Mistonova, Oleg Andreev, Alexander Voitkiv

Th P129 Ion-Li collision dynamics studied with a MOTReMi

Johannes Goullon, Renate Hubele, Aaron LaForge, Michael Schulz, Xingcheng Wang, Bennaceur Najjari, Natalia Ferreira, Manfred Grieser, Vitor de, Robert Moshammer, Alexander Voitkov, Daniel Fischer

Th P132 Passage of high-power uranium beams through helium gas charge stripper

H. Imao, H. Okuno，H. Kuboki, H. Hasebe, O. Kamigaito and M. Kase

3.2 Atom-atom/ion-ion Collisions

Th P105 Spin-exchange complex cross sections at collisions between alkali atoms.

Victor Kartoshkin

Th P106 Long-range interactions between excited helium atoms and ground-state noble gas atoms

Jun-Yi Zhang, Zong-Chao Yan, Udo Schwingenschlogl

Th P107 Single and multiple ionization of rare gases by H^0 impact

Peter Herczku, Laszlo Sarkadi

Th P130 Interference effects in double electron capture in H^+-H^- collisions at low and intermediate impact energies

Alain Dubois, Gabriel Labaigt, Nicolas Sisourat

3.3 Ion-Molecule/clusters or Atom-Molecule/clusters Collisions

Th P108 Electron capture and dissociation in collision of H_2^+ with He
Chun-Hua Liu, Jian-Guo Wang, Ratko Janev

Th P109 Resolving vibration in $H^+ + H_2$ charge transfer collisions
Luis Mendez, Xavier Urbain, V. M. Andrianarijaona, Nathalie de, Luis Errea, Ismanuel Rabadan, Luis Fernandez, Bernard Pons

Th P110 Absolute cross sections of the soft X-ray emission related to the solar wind charge exchange in collisions of C^{6+} with H_2 and He
Shimaya Hirofumi

Th P111 Theoretical investigation of the influence of collision energy on the stereodynamics of Li+DF→LiF+D reaction
Ying Shi, Shujuan Li, Yingying Zhang

Th P112 Study of electron capture and ionization in proton collisions with N_2 using ab initio methods
Ismanuel Rabadan, Emesse Rozsalyi, Luis Carlos, Luis Errea , Luis Mendez,

Th P113 Electron DDCS in ionization of H_2O by 72 MeV O^{8+} ions: comparison with CDW-EIS post and prior form
Lokesh Tribedi

Th P114 A collision process responsible for widespread formation of H^- anions
Bela Sulik, Zoltán Juhász, Sándor T. S. Kovács, Elie Lattouf, Jimmy Rangama, Erika Bene, Bernd Huber, François Frémont, Alain Méry, Jean-Christophe Poully, Patrick Rousseau, Péter Herczku, Jean-Yves Chesnel

Th P115 Fragmentation processes of OCS in collision with highly charged ions
Jun Matsumoto, Haruaki Tezuka, Ayumi Fukutome, Reza Karimi, Benji Wales, Joseph Sanderson, Haruo Shiromaru

Th P116 Quasi-Quantum Treatment of the rotationally inelastic NO-He scattering
Xia Zhang

Th P117 Influence of the description of the initial wavefunction in the single

ionization reaction of H_2O molecules

Roberto Rivarola, Carmen Tachino, Juan Monti, Omar Fojón, Christophe Champion, Fernando Martin

Th P118 Single electron ionization of ammonia and methane molecules by swift proton impact

Roberto Rivarola, Carmen Tachino, Juan Monti, Omar Fojón, Christophe Champion

Th P119 Quantum dynamics study of the $Cl+CH_4$ --> $HCl+ CH_3$ reaction: reactive resonance, vibrational excitation reactivity, and rate constants

Dunyou Wang

Th P120 Theoretical investigations on the resonant transfer excitation processes of Kr^{34+} colliding with CH_4, NH_3, H_2O and HF

Yizhi Qu

Th P121 Double and single differential cross sections for secondary electron production in 6.0 MeV/u O^{8+} +H_2O collisions

Daisuke Ohsawa

Th P122 Close-coupling approach to antiproton impact ionisation of H_2 with analytical spherical averaging

Ilkhom Abdurakhmanov, Alisher Kadyrov, Dmitry Fursa, Igor Bray

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F. Q. Song, B. G. Wang, G. H. Wang

5. Collision Involving Condensed Matter

Th P25 Dynamics of irradiated clusters and molecules

Eric Suraud

Th P26 Electron Spectroscopic Study of Multiple Photoionization Processes of Xe Clusters by Intense EUV-FEL Pulses

Nagaya Kiyonobu , Kenji Matsunami, Tsukasa Sakai, Satoshi Yase, Makoto Yao, Hironobu Fukuzawa, Koji Motomura, Kiyoshi Ueda, Shin-Ichi Wada, Hironori Hayashitak, Norio Saito, Mitsuru Nagasono, Kensuke Tono, Tadashi Togashi, Makina Yabashi, Tutsuya Ishikawa, Haruhiko Ohashi, Yasunori Senba

Th P27 Nano-plasma Fromation and Thermal Electron Emission of Neon Clusters Induced by Extreme Ultraviolet Free Electron Laser Pulses
Nagaya Kiyonobu , Satoshi Yase, Yuri Mizoguchi, Makoto Yao, Hironobu Fukuzawa, Koji Motomura, Ayako Yamada, Ma Ri, Norio Saito, Arnaud Rouzée, Axel Hundertmark, Marc Vrakking, Per Johnsson, Mitsuru Nagasono, Kensuke Tono, Tadashi Togashi, Makina Yabashi, Tetsuya Ishikawa, Haruhiko Ohashi, Yasunori Senba

Th P28 Role of the laser wavelength in the X-ray production for clusters under intense laser pulses
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Th P29 keV electron heating in laser-cluster interaction probed by X-ray and electron spectroscopy
Hao Yin, Georg Wachter , Cornelia Deiss, Christoph Lemell, Joachim Burgdörfer, Emily Lamour, Christophe Prigent , Cédine Ramond, Jean-Pierre Rozet, Sébastien Steydli, Martino Trassinelli, Dominique Vernhet

Th P30 Hot-carrier induced photon-emission in silicon metal-oxide-semiconductor field-effect-transistor
Kaikai Xu, G.P. Li

Th P123 Ionization of highly charged iodine ions in collisions near the Bohr velocity
Xianming Zhou, Yongtao Zhao

Th P124 Fe K-shell ionization induced by Xe^{20+} ions near the Bohr velocity
Xianming Zhou, Yongtao Zhao

6. Experimental Techniques

Th P31 Monte Carlo Simulations of Novel Compton Polarimeter Systems Based on Calorimeter Technology
Karl-Heinz Blumenhagen k.-, Andreas Fleischmann, Renate Märtin, Günter Weber, Thomas Stöhlker

Th P32 High-brilliance double-stage soft x-ray laser pumped by multiple pulses applied in grazing incidence

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7. Related Topics

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Th P87 Study of two correlated electrons confined by harmonic potentials

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Th P88 Correlated $n^1,^3S$ states for two-electron atoms in screened potentials

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Th P127 The hyperfine structure interpretation in Cs_2 $2^3\Delta g$, 1_g ($3^3\Pi_{1g}$) and $3^3\sum_g^+$ states

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1. Photon Impact

1.1 Weak Field

Fr P1 Photoionization of metastable state 1s2s $^1S_0$ of helium

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Fr P2 Theoretical study for photoionization of Mg-like S^{4+} ion

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Fr P6 A measurement of the evolution of Interatomic Coulombic Decay

Florian Trinter , Joshua B. Williams, Miriam Weller, Markus Waitz, Martin Pitzer, Joerg Voigtsberger, Carl Schober, Gregor Kastirke, Christian Mueller, Christoph Goihl, Philipp Burzynski, Florian Wiegandt, Hendrik Sann, Robert Wallauer, Anton Kalinin, Lothar Schmidt, Markus Schoeffler, Nicolas Sisourat, Till Jahnke

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Saito, Kiyoshi Ueda

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Thomas Gorczyca, Muhammet Fatih Hasoglu

Fr P17 K-Shell Photoionization of Doubly Ionized Atomic Nitrogen
Brendan McLaughlin, Jean-Marc Bizau, Catalin Miron, Mohammad F Gharaibeh, Christophe Nicolas, Denise Cubaynes, Christophe Blancard, SÉGolÈNe Guilbaud, Nouha EL HASSAN, Mohammad Al-Shorman

Fr P18 Theoretical investigations of Ne^+ photoionization
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Kristof Holste, Alexander Borovik, Ticia Buhr, Sándor Ricz, Ákos Kövér, Dietrich Bernhardth, Stefan Schippers, Dezső Varga, Alfred Müller

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Andrej Mihelic, Matjaz Zitnik, Klemen Bucar, Robert Richter

Fr P25 Atomic ensembles in a laser pulse and dynamics of the resonant levels: optical bi-stability, pulse form, noise and chaos effects

Vasily Buyadzhi

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Rainer Hentges, Toralf Lischke, Gregor Hartmann, Burkhard Langer, Arno Ehresmann, Omar Al-Dossary, Uwe Becker

Fr P27 Relativistic R-matrix studies of photoionization processes of Ar^{5+}

Chuanying Li

Fr P28 Time-dependent theory of sequential double ionization of neon

Lampros Nikolopoulos

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Andreas Fischer, Alexander Sperl, Philipp Cörlin, Michael Schönwald, Helga Rietz, Alicia Palacios, Alberto González-Castrillo, Fernando Martín, Joachim Ullrich, Thomas Pfeifer, Arne Senftleben, Robert Moshammer

Fr P30 Double K-shell ionization in C_2H_{2n}(n=1,3), CO and N_2

Francis Penent

Fr P31 Vibrationally resolved molecular frame photoelectron angular distributions of diatomic and polyatomic molecules

Etienne Plesiat, Piero Decleva, Fernando Martin

Fr P32 Effects of molecular potential and geometry on atomic core-level photoemission over an extended energy range – the case study of CO molecule

D Ayoso, T.D. Thomas, P Decleva, M Patanen, L Argenti, E Plesiat, A Palacios, K Kooser, O Travnikova, S Mondal, M Kimura, K sakai, C Miron, F Martin, K Ueda

Fr P33 Dissociation of σ* resonances in chloromethanes by resonant inelastic x-ray scattering

Rok Bohinc

Fr P34 Spectroscopy and kinetics of IR laser interaction with atmospheric molecules. Effects of cooling and chaos

Alexander Glushkov, Olga Khetselius, Oleg Grushevsky, Yuliya Bunyakova

Fr P35 Renner-Teller Effect in $HCCCl^+$ Studied by High Resolution Photoelectron Spectroscopy

Wei Sun, Yuxiang Mo

Fr P36 Sturmian approach to single photoionization of CH_4

Carlos M. Granados-Castro, Lorenzo U. Ancarani , Gustavo Gasaneo , Dario M. Mitnik

Fr P37 Time-delay in the valence photoemission of Ar confined in C_{60}

Mohamed El-Amine, Gopal Dixit, Himadri Chakraborty

Fr P38 XUV induced dynamical response for the C_{60} plasmon, a new way to investigate attosecond photoemission in complex systems

Thomas Barillot

1.2 Strong Field

Fr P39 Massively parallel ionization in strong X-ray pulses: Revealing dynamical and spatial correlations in finite samples

Ulf Saalmann, Jan M. Rost

Fr P40 Probing the transition from molecular to atomic photo-absorption with XUV FEL radiation

Arne Senftleben , Kirsten Schnorr, Denis Anielski, Georg Schmid, Kristina Meyer, Artem Rudenko, Tatiana Marchenko, Marc Simon, Yuhai Jiang, Lutz Foucar, Matthias Kubel, Matthias F. Kling, Stefan Dusterer, Rolf Treusch, Claus-Dieter Schroter, Thomas Pfeifer, Joachim Ullrich, Robert Moshammer

Fr P41 Tracing Interatomic Coulombic Decay in Neon Dimers by XUV pump-probe Experiments at FLASH

Kirsten Schnorr, Arne Senftleben, Moritz Kurka, Artem Rudenko, Lutz Foucar,Thomas Pfeifer,Kristina Meyer, Georg Schmid, Jakob Kunz, Alexander Broska, Denis Anielski, Matthias Kuebel, Matthias Kling, Subhendu Mondal, Tetsuya

Tachibana, Kiyoshi Ueda, Tatiana Marchenko, Marc Simon, Joachim Ullrich, Guenter Brenner, Rolf Treusch, Claus-Dieter Schroeter, Robert Moshammer

Fr P42 Strong field double ionization of Helium with ultra-short phase stabilized circularly polarized laser pulses

Markus Schoeffler, Xinua Xie, Stefan Roither, D. Kartashov, Andrius Baltuska, Markus Kitzler

Fr P43 Impulsive Control of Fano Resonances

Christian Ott, Andreas Kaldun, Kristina Meyer, Philipp Raith, Martin Laux, Alexander Blättermann, Thomas Ding, Yizhu Zhang, Jörg Evers, Christoph H. Keitel, Chris H. Greene, Thomas Pfeifer

Fr P44 Low-energy structures from soft recollisions: Basic mechanism and detection with few-cycle pulses

Ulf Saalmann, Jan M. Rost

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Min Li, Yunquan Liu

Fr P46 Identification of strong one-step two-photon absorption in a cascade three-level system

Ji-Cai Liu, Lei Chen, Ye-Qi Zhang

Fr P47 Time-resolved resonant photoionization of He using a time-dependent Feshbach method with ultrashort laser pulses

Carlos Mario, José Luis Sanz-Vicario

Fr P48 The interaction of metastable neon and few cycle laser pulses

James Calvert , Han Xu, Dane Laban, Rohan Glover, Igor Litvinyuk, David Kielpinski, Robert Sang

Fr P49 Ultra-low energy electron emission in ionization with long-wavelength laser pulses

Nicolas Camus, Judith Dura, Alexandre Thai, Alexander Britz, Michaël Hemmer, Mathias Baudisch, Lutz Fechner, Andreas Krupp, Arne Senftleben, Claus Dieter, Thomas Pfeifer, Joachim Ullrich, Robert Moshammer , Jens Biegert

Fr P50 Realization of stimulated electronic x-ray Raman scattering

Clemens Weninger, Michael Purvis, Duncan Ryan, Richard A. London, John D. Bozek, Christoph Bostedt, Alexander Graf, Gregory Brown, Jorge J. Rocca, Nina Rohringer

Fr P51 Mapping the decay of double core hole states of atoms and molecules

Melanie Mucke, Vitali Zhaunerchyk , Richard J. Squibb, Magdalena Kami ńska, John H.D. Eland, Peter von der Meulen, Peter Sal én, Per Linusson, Richard, D. Thomas, Mats Larsson, Leszek J. Frasinski, Marco Siano, Timur Osipov, Li Fang, Brendan F. Murphy, Nora Berrah, Lutz Foucar, Joachim Ullrich, Koji Motomura, Subhendu Mondal , Kiyoshi Ueda, Robert Richter, Kevin C. Prince, Maria Novella, Piancastelli, James M. GlowniavJames Cryan, Ryan Coffee, Christoph Bostedt, John David Bozek, Sebastian Schorb, Marc Messerschmidt, Osamu Takahashi, Shin-ichi Wada, Raimund Feifel

Fr P52 The investigation on atoms and molecules in the intense laser field with time-dependent Hartree-Fock method

Shilin Hu, Zengxiu Zhao, Tingyun Shi

Fr P53 Correlated dynamics of electron passing through a Doubly Excited Complex

Nicolas Camus, Bettina Fischer, Manuel Kremer, Vandana Sharma, Artem Rudenko, Boris Bergues, Matthias K übel, Nora G. Kling, Matthias Kling, Thomas Pfeifer, Joachim Ullrich, Robert Moshammer

Fr P54 Dissociative ionization of NO in few-cycle intense laser fields : Effects of π-σ electronic transition

Tomoyuki Endo , Mizuho Fushitani, Akitaka Matsuda, Akiyoshi Hishikawa

Fr P55 N_2O ionization and dissociation dynamics in intense few cycle femtosecond laser radiation.

Reza Karimi

Fr P56 Coherent superposition of two rotational states of carbon monoxide: Tracing a quantum rotor in space and time

Andreas Kickermann , Andreas Przystawik , Lasse Schroedter , Tim Laarmann

Fr P57 Structure parameters in molecular tunneling ionization theory

Jun-Ping Wang, Wei Li, Song-Feng Zhao

Fr P58 Generation of isolated 38as pulse from the oriented CO molecule

Yun Pan, Song-Feng Zhao, Xiao-Xin Zhou

Fr P59 Carrier-Envelope Phase effect for Dissociation of Molecular Hydrogen

Han Xu, J-P Maclean, D.E. Laban, W.C. Wallace, D. Kielpinski, R.T. Sang , I.V. Litvinyuk

Fr P60 An extreme ultraviolet interferometer using high order harmonic generation
D.E. Laban, A.J. Palmer, W.C. Wallace, N.S. Gaffney, M.J. Pullen, D. Jiang, H.M. Quiney, I.V. Litvinyuk, D. Kielpinski, R.T. Sang

Fr P61 Time-resolved imaging of multielectron wavepackets in atoms
Lutz Fechner, Nicolas Camus, Joachim Ullrich, Thomas Pfeifer, Robert Moshammer

Fr P62 Attosecond Transient Absorption Spectroscopy of doubly-excited states in helium
Luca Argenti, Christian Ott, Thomas Pfeifer, Fernando Martín

Fr P63 Theoretical study of the macroscopic characters of the gas medium affecting the generation of attosecond pulses
Xiaoyong Li, Guoli Wang, Xiaoxin Zhou

2. Lepton Impact

2.2 Electron-Molecule/Cluster Collisions

Fr P69 Excitation functions for positively charged fragments produced by electron impact on adenine
Peter van der Burgt, S. Eden, F. Mahon, S. Finnegan

Fr P70 Excitation functions for positively charged fragments produced by electron impact on thymine
Peter Van Der Burgt, F. Mahon, S. Finnegan

Fr P71 Ionization of water by electron impact in (e,2e) processes
Ladislau Nagy, István Tóth

Fr P72 Triple differential cross sections for liquid water ionization by impact of fast electrons.
Omar Fojon, Carlos Stia, Rodolphe Vuilleumier, Marie Francoise, Maria Laura

Fr P73 Electron Interactions with Explosives
Katrin Tanzer, Johannes Postler, Carolina Matias,Andreas Mauracher, Paul Scheier, Chris A. Mayhew, Paulo Limao-Vieira, Stephan Denifl

2.3 Electron-Ion Collisions

Fr P74 Polarization of the strongest nf→3d (n = 4, 5, 6) radiative lines

emitted from tungsten ions following EIE and DR processes

Chenzhong Dong, Zhongwen Wu, Xiaoyun Ma

Fr P75 Dielectric recombination of the 4p and 4d open sub-shell tungsten ions

Maijuan Li, Yanbiao Fu

Fr P76 Dielectronic recombination experiment of P-like Tin on HIRFL-CSRm at Lanzhou

Weiqing Xu, Xinwen Ma

Fr P77 Dielectronic recombination of boronlike Si^{9+} ions at the heavy-ion storage ring TSR

Stefan Schippers, Kaija Spruck, Andreas Wolf, Daniel Wolf, Roland Repnow, Oldrich Novotny, Alfred Mueller, Michael Lestinsky, Claude Krantz, Michael Hahn , Manfred Grieser, Arno Becker, Dietrich Bernhardt

Fr P78 Dielectronic recombination of berylliumlike Si^{10+} ions at the heavy-ion storage ring TSR

Stefan Schippers, Dietrich Bernhardt , Arno Becker, Carsten Brandau, Manfred Grieser, Michael Hahn, Claude Krantz, Michael Lestinsky, Alfred Mueller, Oldrich Novotny, Roland Repnow, Daniel Wolf, Kaija Spruck, Andreas Wolf

Fr P79 Dielectronic recombination of berylliumlike Xe^{50+} ions: Measurement and theoretical calculations

Stefan Schippers, Dietrich Bernhardt, Carsten Brandau, Christophor Kozhuharov, Alfred Müller, Sebastian Böhm, Fritz Bosch, Zoltan Harman, Jörg Jacobi, Stefan Kieslich, Holger Knopp, Paul Mokler, Fritz Nolden, Wei Shi, Zbigniew Stachura, Markus Steck, Thomas Stoehlker

Fr P80 Dielectronic recombination of lithiumlike Xe^{51+} ions: Storage ring experiment and theoretical calculations

Stefan Schippers, Dietrich Bernhardt, Carsten Brandau, Christophor Kozhuharov, Alfred Müller, Sebastian Böhm, Fritz Bosch, Zoltan Harman, Jörg Jacobi, Stefan Kieslich, Holger Knopp, Paul Mokler, Fritz Nolden, Wei Shi, Zbigniew Stachura, Markus Steck, Thomas Stoehlker

Fr P81 Recombination of open-4f-shell W^{18+} ions with free electrons

Stefan Schippers, Kaija Spruck, Andreas Wolf, Nigel Badnell, Claude Krantz, Arno Becker, Dietrich Bernhardt, Manfred Grieser, Michael Hahn, Oldrich Novotny, Daniel Wolf

Fr P82 Storage-ring measurement of the hyperfine induced $2s2p\ ^3P_0 \rightarrow 2s^2\ ^1S_0$ transition rate in berylliumlike sulfur

Stefan Schippers,Dietrich Bernhardt, Manfred Grieser, Michael Hahn, Claude Krantz, Michael Lestinsky, Alfred Mueller, Oldrich Novotny, Roland Repnow, Daniel Wolf, Andreas Wolf

Fr P83 Suppression of Dielectronic Recombination at Finite Densities

Thomas Gorczyca, Dragan Nikolic, Kirk Korista , Gary Ferland , Nigel Badnell

Fr P84 Measurement of the angular distribution of Dielectronic Recombination into highly charged Krypton ions

Stanislav Tashenov

Fr P85 Application of electron impact relativistic distorted wave cross sections for the diagnostic of inductively coupled argon plasma

Rajesh Srivastava, Dipti Dipti, Reetesh Gangwar , Alan Stauffer

Fr P86 Electron excitation of L-shell electrons from Ne-like and F-like tungsten ions

Rajesh Srivastava, Dipti Dipti, Tapasi Das, Lalita Sharma

Fr P87 Indirect processes in x-ray line emissions of 5f → 3d transitions of

Zhimin Hu

Fr P88 Direct and indirect processes in electron-impact ionization of $1s^2\ ^1S_0$ ground-state and $1s2s\ ^3S_1$ metastable He-like N^{5+} ions

Alfred Mueller, Alexander Borovik, Kurt Huber, Stefan Schippers

Fr P89 Electron Impact ionization of ethylene

Yu Zhang

Fr P90 Electron-impact ionization of 4d-shell xenon and tin ions

Alfred Mueller, Alexander Borovik Jr , Mohammad Gharaibeh, Joachim Rausch, Jan Rudolph, Stefan Schippers, Pierre-Michel Hillenbrand

Fr P91 Dissociative recombination of NH^+

Bian Yang, Oldrich Novotny

Fr P92 Polarization of M2 line emitted from highly-charged beryllium-like ions
following electron-impact excitation

Y. L. Shi, Chenzhong Dong, Stephan Fritzsche

Fr P93 Electron-impact excitation of Fe VII

Oleg Zatsarinny, Swaraj Tayal

3. Heavy Ion Impact
3.1 Ion-Atom Collisions

Fr P99 Charge transfer and association of Na^+ with ^{87}Rb atoms from extreme-low to intermediate energies
Yan Lingling, Jianguo Wang, Yizhi Qu

4. Ultracold Atmoic and Molecular Physics

Fr P100 Multiconfiguration Dirac-Hartree-Fock calculations of EDM for Ra, Hg, Yb
Gediminas Gaigalas

Fr P101 Effect of atomic mass on ultra cold H-H scattering parameters using non adiabatic CCA model
Sumana Chakraborty

Fr P102 The atom and atom scattering at cold-energies
Hasi Ray

Fr P103 Ultracold collisional processes in atomic traps
Vladimir Melezhik

Fr P104 S-wave scattering lengths for cold Ca-Li and Mg-Li collisions
JiCai Zhang, Jinfeng Sun

Fr P105 Dynamic polarizabilities for the low lying states of Ca^+
yongbo Tang, Haoxue Qiao, Tingyun Shi, Jim Mitroy

Fr P106 Interaction of Ag(5s) and Ag(5p) with noble gas atoms
hossein Sadeghpour, Jerome Loreau, Alex Dalgarno

Fr P107 Feshbach resonances in ^6Li-^{133}Cs with asymptotic bound model
Shi Ting-Yun, Meng-Shan Wu

Fr P108 Ion-Neutral Chemistry in the Cold Regime
Olivier dulieu, Felix H. J. HallPascal Eberle, Gregor Haji, Maurice Raoult, Mireille Aymar, nadia bouloufa, Stefan Willitsch

Fr P109 Optical trapping of cold molecules and population transfer
olivier dulieu, Dimitri Borsalino, Beatriz Londono, Romain Vexiau, Maxence Lepers, Mireille Aymar, Eliane Luc, Nadia Bouloufa

Fr P110 Formation of NH^+ in collisions of N^+ with para- or ortho-H_2 at low temperatures – an experimental study

Radek Plasil, Illia Zymak, Michal Hejduk, Dmytro Mulin, Juraj Glosik, Dieter Gerlich

5. Collision Involving Condensed Matter

Fr P131 Cosmic ray impact on astrophysical ices: heavy ion irradiation of methane laboratory simulations

C. F. Meja, A. L. F. de Barrosy, V. Bordalo, E. F. da Silveira, P. Boduchz, Domarackaz and H. Rothardz

6. Experimental Techniques

Fr P64 A novel method for generation and amplification of femtosecond pulses pumped by a nanosecond laser

Tsuneto Kanai, Tomoya Mizuno, Toshiyuki Azuma

Fr P94 A Highly Polarised Temperature Controlled Atomic Hydrogen Beamline

Peter Caradonna, Martin Diermaier, Michael Wolf, Barbara Wünschek, Oswald Massiczek, Nazli Dilaver, Bernadette Kolbinger, Chloe Malbrunot, Clemens Sauerzopf, Johann Zmeskal, Eberhard Widmann

Fr P111 The Movement Control System for Beam Detection Device

Yu Yuanjuan, Yanyu Wang, Fuyuan Lin

Fr P112 The development of beam intelligent identification system based on WinPAC

JinFu luo, Yanyu Wang, Yucheng Feng

Fr P113 The Development of HIRFL-CSR Water Leakage Early Warning System

Yun jie Li, Yan Yu, De Tai, Jia Yin, Wen Xiong, Li Li, Jian Chuan, Fu Yuan

Fr P114 Design of CSRm Deflector Control System

Fuyuan Lin, Yanyu Wang, Yanjuan Yu

Fr P115 Design of Ethernet-based Control System for HIRFL-CSR Digital Power Supply

Huajian Zhang, Fengjun Wu, Rongkun Wang, Youxin Chen, Daqing Gao

Fr P116 The design of a online data analysis software for CCNS
Wenxiong Zhou, Yanyu Wang

Fr P117 Cross-talk studies on FPCB of double-sided silicon micro-strip detector
Lei Yang, Zhankui Li

Fr P118 The platforms for space radiation research in IMP
Dan Xu, Jufang Wang, Guangming Zhou

Fr P119 The SHER-HIAF Ring Lattice Design
Gao Xiang

Fr P120 The HITRAP ion decelerator facility and CRYRING status
Zoran Andelkovic

Fr P121 Investigation of $LaBr_3$:Ce scintillator with excellent property
Jinda Chen, Zhengguo Hu

Fr P122 NIEL studies on of double-sided silicon micro-strip detector
Lei Yang, Zhankui Li

Fr P123 320 kV High Voltage platform at IMP
Jinyu Li

Fr P124 The interdisciplinary high energy heavy ion microbeam system at IMP
Guanghua Du, Jinlong Guo, Ruqun Wu, Lina Sheng, Mingtao Song, Guoqing Xiao

Fr P133 Research on Voltage-source PWM Rectifier based on Space-vector Control Technology used in Accelerator Power Supply
Fengjun Wu, Daqing Gao

7. Related Topics

Fr P65 Vibrational and Electronic spectral studies of 2-(Bromoacetyl)benzo(b)furan – A combined Experimental and Theoretical Study
Adamilli Veeraiah, V Veeraiah

Fr P66 Radiative and Dielectronic Recombination Rates for Li-like Ions with Atomic Numbers $4 \leqslant Z \leqslant 18$
Vedat Karakas

Fr P67 Forbidden and Unexpected Transitions in Atomic Ions

Yan Song, Hongshan Chen

Fr P132 Perspective for a compact electrostatic storage ring

Mohamed O. A. El Ghazaly

1. Photon Impact
1.1 Weak Field

Mo P1 Production of high-n strontium Rydberg atoms

S. Ye, T. C. Killian, F. B. Dunning , M. Hiller, S. Yoshida, J. Burgdoerfer

Mo P2 Two-electron interference in angular resolved double photoionization of Mg

Emma Sokell, Paola Bolognesi, Anatoli Kheifets, Igor Bray, Stephan Safgren, avaldi Lorenzo

Mo P3 A generalized Sturmian approach to photoionization of hydrogen by electromagnetic pulses

Ilan Gomez, Marcelo J. Ambrosio, Gustavo Gasaneo, Dario M. Mitnik, Bernard Piraux, Diego Arbo

Mo P4 Double photoionization cross sections of helium using a simple set of outgoing Sturmian Functions

Juan M. Randazzo, Dario M. Mitnik, Lorenzo Ancarani, Flavio D. Colavecchia, Gustavo Gasaneo

Mo P5 Relativistic R-Matrix calculations for the photoionization cross sections of C II

Luyou Xie, J G Wang, Y Z Qu, C Z Dong

Mo P6 Experimental lifetimes in Cr II obtained by two-photon laser excitation

Lars Engstrom, Hans Lundberg, Hampus Nilsson, Henrik Hartman

Mo P7 Attosecond VUV Coherent Control of Molecular Dynamics

Predrag Ranitovic, C. W. Hogle, Paula Rivière, Alicia Palacios, X. M. Tong, N. Toshima, Alberto González-Castrillo, L. Martin, Fernando Martín, M. M. Murnane, H. C. Hapteyn

Mo P8 Single-molecule x-ray interferometry: a probe for coupled electron-nuclear quantum dynamics and molecular potentials

Christophe Nicolas, Victor Kimberg, Faris Gel, Nobuhiro Kosugi, Andreas Lindblad, Paul Morin, Yu-Ping Sun, Johan Söderström, Oksana Travnikova, Catalin Miron

Mo P9 Ultrafast dissociation in polyhalogenated ethane: alternative mechanisms

Oksana Travnikova, Christophe Nicolas, Victor Kimberg, Roberto Flammini,

Xiao-Jing Liu, Minna Patanen, Svante Svensson, Catalin Miron

Mo P10 Autoionization of molecular hydrogen: where do the Fano lineshapes go?

Alicia Palacios, Johannes Feist, Alberto González-Castrillo, Jose Luis, Fernando Martín

1.2 Strong Field

Mo P11 Effects of autoionizing states on two-photon double ionization of the H_2 molecule

Xiaoxu Guan

Mo P12 Photoionization of H_2^+ by intense elliptically polarized radiation

Xiaoxu Guan

Mo P13 Correlated electron and nuclear dynamics in strong field photoionization of H_2^+

Fernando Martín, R. E. F. Silva, Paula Rivière, Fabrice Catoire, Henri Bachau

Mo P14 Electron-Ion Differential Cross Section extracting from the High-order Above-Threshold Ionization spectroscopy of C_2H_4 and C_2H_6

Chuncheng Wang, Misaki Okunishi, Robert Lucchese, Dajun Ding, Toru Morishita, Kiyoshi Ueda

Mo P15 Low Energy Spectra of H_2^+ in Strong IR Fields

Shu-Na Song

Mo P16 The enhancement of high harmonic generation from CO_2 molecule by the extension of Lewenstein model

Jing Guo

Mo P17 Two and three-photon double ionization of lithium

Michael Schuricke, Christian Dornes, Gregory Armstrong, James Colgan, Anatoli Kheifets, Joachim Ullrich, Alexander Dorn

Mo P18 Photoelectron momentum spectra of hydrogen atoms driven by elliptically polarized laser fields

Mitsuko Murakami

Mo P19 Study on Low-Energy Structure in Above-Threshold Ionization: an S-matrix approach

Jing Chen， Jingyun Fan， Wilhelm Becker

Mo P20 Angular distribution effects in multi-photon ionization

Gregor Hartmann, Markus Braune, Toralf Lischke, Andr é Meissner, Andr é Knie, Arno Ehresmann, Markus Ilchen, Burkhard Langer, Omar Al-Dossary, Uwe Becker

1.3 Field Assisted Collisions

Mo P21 Theoretical study on laser-assisted electron momentum spectroscopy of helium

Andrey Bulychev, Konstantin Kouzakov, Yuri Popov

Mo P22 Interferences in laser assisted photoionization of diatomic molecules

Diego Boll, Omar Fojon

Mo P23 Laser assisted electron impact excitation of helium in the threshold region

Alexander Dorn

Mo P24 Spatiotemporal ionization dynamics traced by laser-assisted scanning spectroscopy

Jamal Berakdar, Michael Schüler, Yaroslav Pavlyukh

2. Lepton Impact

2.1 Electron-Atom Collisions

Mo P37 Strong asymmetry of the angular distribution of Auger electrons from electron-impact excited autoionizing states of Rb

Alicija Kupliauskiene, Gintaras Kerevicius

Mo P38 On spectroscopic classification of autoionizing levels in Rb atoms

Alicija Kupliauskiene, Alexsandr Borovik, Gintaras Kerevicius, Viktoria Roman

Mo P39 Excitation-autoionization cross section of alkali atoms by electron impact

Alicija Kupliauskiene, Alexandr Borovik

Mo P40 Excitation functions of high-lying autoionizing states in Rb atoms

Oleksandr Borovik, Alicija Kupliauskiene, Viktorija Roman

Mo P41 The $4p^6$ electron energy-loss spectrum of Rb atoms

Oleksandr Borovik, Alicija Kupliauskiene, Viktorija Roman, Vasilij Hrytsko

Mo P42 The failure of the plane-wave impulse approximation
Ferhat Menas, Claude Dal Cappello

Mo P43 Universal functional formula of atomic elastic cross sections. The case of the hydrogen target.
Karoly Tokesi, P. Salamon, D. Tskhakaya, D. Coster

Mo P44 Ejected electron spectroscopy of autoionizing states of neon by electron impact
Aleksandar Milosavljevic, Jozo Jureta, Bratislav Marinkovic

Mo P45 An (e, 3e) study on the role of higher order mechanisms in electron impact double ionization of helium
XueGuang Ren, Joachim Ullrich, Alexander Dorn

Mo P46 Experimental and theoretical investigation of (e,2e) ionization of Ar(3p) in asymmetric kinematics at intermediate energies
Mevlut Dogan, Melike Ulu , Zehra Nur Ozer , Murat Yavuz , Oleg Zatsarinny, Klaus Bartscha, Albert Crowe

Mo P47 Accuracy of 3DW approach for electron impact ionization of Neon
Don Madison, Sadek Amami, Hari Saha, Thomas Pfluege, Xueguang Ren, Arne Senftleben, Alexander Dorn

Mo P48 Angular distributions for electron-impact ionization of Mg
Gregory Armstrong, James Colgan, Kate Nixon, Andrew Murray

Mo P49 Importance of the recoil contribution in Two Step 2 mechanism for the electron impact double ionization process
Li Chengjun, Elena-Magdalena Staicu-Casagrande, Azzedine Lahmam-Bennani

2.2 Electron-Molecule/Cluster Collisions

Mo P50 Stereodynamics of the low-energy electron dissociative attachment to tetrafluoromethane
Shan-Xi Tian, Lei Xia, Hong-Kai Li, Xian-Jin Zeng, Xu-Dong Wang, Chuan-Jin Xuan, Bin Wu

Mo P51 A program of calculating electron-momentum spectroscopy based on Fast Fourier Transform
Hongjiang Yang, Xiangjun Chen

Mo P52 Molecular Frame (e,2e) cross sections for electron impact ionization

with excitation of aligned H_2

Don Madison

Mo P53 New experiment for coincidence detection of H(2*l*)+H(2*l'*) coming from dissociation of H_2 induced by electron impact.

Rodrigo Nascimento, Aline Medina, Carlos Renato, Carla Carvalho, Leonardo Santos, Ginette Jalbert, Fabio Zappa, Nelson Velho, Jacques Robert

Mo P54 Coplanar and non-coplanar differential cross sections for ionization of aligned H_2 molecules by electron impact

Roberto Rivarola, Omar Fojón, Carlos Stia

Mo P55 Convergent-close-coupling formalism for electron and positron scattering from molecules

Mark Zammit, Dmitry Fursa, Jeremy Savage, Igor Bray

Mo P56 Double excitation cross sections of molecular hydrogen induced by electron impact.

Leonardo Santos, Rodrigo Nascimento, Nelson Velho, Ginette Jalbert

Mo P57 Dissociation process of methane impact by electron

Xincheng Wang, Baoren Wei, Zhuo Chen, Yaming Zou

Mo P58 Electron scattering from molecular hydrogen in a spheroidal convergent close-coupling formalism

Jeremy Savage, Dmitry Fursa, Mark Zammit, Igor Bray

Mo P59 Elastic scattering of low-energy electrons by hydrogen molecules

Jun-Yi Zhang, Ying Qian, Zong-Chao Yan, Udo Schwingenschlogl

Mo P60 Theoretical Study of electron impact total cross sections for radicals over a wide energy range - CF_2 and SiF_2

Mayuri Barot, Minaxi Vinodkumar, Bobby Antony

Mo P61 Comparison of Dyson, Hartree-Fock, Kohn-Sham, natural, natural-bond orbi-tals: electron momentum spectroscopy of CH_4

Chuangang Ning, Yurun Miao, Jingkang Deng, Jingsheng Zhu

Mo P62 Intramolecular diffraction in (e, 2e) reactions of CX_4 (X=F, Cl, Br)

Chuangang Ning, Jingsheng Zhu, Jingkang Deng, Yurun Miao

Mo P63 Double Differential Cross Sections for Methane Molecules at Intermediate Energies

Mevlut Dogan, Murat Yavuz, Nimet Okumus, Zehra Nur, Melike Ulu, Mohammed Sahlaoui, Houda Benmansour, Mammar Bouamoud

Mo P64 Modified effective range theory for electron scattering on molecular hydrogen and methane

Kamil Fedus, Zbigniew Idziaszek, Grzegorz Karwasz

Mo P65 An (e, 2e + ion) investigation of fragmentation of methane induced by low energy electrons

Shenyue Xu, Xinwen Ma, Xueguang Ren, Arne Senftleben, Thomas Pflüger, Joachim Ullrich, Shuncheng Yan, Pengju Zhang, Jie Yang, Alexander Dorn

Mo P66 Electron-impact ionization for P-like ions forming Si-like ions

Duck-Hee Kwon

Mo P67 Resonances in the low-energy electron collisions with gas-phase thymine molecule

Pavlo Markush

3. Heavy Ion Impact

3.1 Ion-Atom Collisions

Mo P81 2D momentum distribution of electron in transfer ionization of helium atom by fast proton

Markus Schoeffler, O. Chuluunbaatar, Yuri Popov, S. Houamer, Jasmin Titze, Till Jahnke, Lothar Schmidt, Ottmar Jagutzki, A. Galstyan, A. A. Gusev

Mo P82 Transfer excitation reactions in fast proton-helium collisions

Markus Schoeffler, O. Chuluunbaatar, Yuri Popov, S. Houamer, Jasmin Titze, Till Jahnke, Lothar Schmidt, Ottmar Jagutzki, A. Galstyan, A. A. Gusev

Mo P83 High resolution study of left-right scattering asymmetry in low-energy Na^+ $Rb(5p_{\pm 1})$ charge-exchange collisions

Bernard Pons, Arnaud Leredde, Xavier Flechard, Amine Cassimi, Dominique Hennecart

Mo P84 Mean-field description of B^{2+}-Ne collisions with active target and projectile electrons

Tom Kirchner, Gerald Schenk, Marko Horbatsch

Mo P85 X-ray emission from highly-charged ions after electron transfer in slow collisions: the role of multiple capture processes

Tom Kirchner, Arash Salehzadeh, Martino Trassinelli, Christophe Prigent, Emily Lamour, Jean-Pierre Rozet, S. Steydli, Dominique Vernhet

Mo P86 Charge transfer processes in He^{2+}+H collisions in the presence of laser field

Chunlei Liu, S. Y. Zou, B. He, J. G. Wang

Mo P87 Effects of Projectile coherence in ion-atom collisions

Xincheng Wang, Kathrina Schneider, Daniel Fischer, Michael Schulz, Aaron Larforge

Mo P88 State-selective electron capture in collisions of C^{6+}, N^{7+} with Hydrogen at intermediate energies.

Luis Mendez, Alba Jorge, Luis Errea, Maria Silvia Gravielle, Clara Illescas, Jorge Miraglia

Mo P89 Multielectronic close-coupling treatment of atomic and molecular collisions: applications to H^+-Li collisions in the keV energy range

Alain Dubois, Gabriel Labaigt

Mo P90 Charge transfer induced X-ray spectra in collisions of highly charged ions with H, He and H_2

Liu Ling

Mo P91 Single-electron-capture cross-section scaling for low-q heavy ions at low energy

Makoto Imai, Iriki Yoshitaka, Yushi Ohta, Takuya Majima, Hidetsugu Tsuchida, Hiromi Shibata, Akio Itoh

Mo P92 Projectile coherence effects investigated for the ionization of helium

Ladislau Nagy, Ferenc Járai-Szabó

Mo P93 Dependence of excitation cross section in the collision bare ions by atomic hydrogen atom on the charge of projectile

Mohammad Bolorizadeh, Reza Fathi, Farideh Shojaei Akbarabadi

Mo P94 Dynamic electron screening in ionization of multi-shell atoms by bare ion impact

Roberto Rivarola, Juan Manuel Monti, Omar Ariel Fojón, Jocelyn Hanssen

Mo P95 Charge Exchange in the Collisions of Protons with Lithium Atoms

Mohamed Assad Abdel-Raouf, Sabbah El-Kilany

Mo P96 The target effect in proton impact helium and neon transfer ionization collision at intermediate energies

Wentian Feng, Xinwen Ma, Xiaolong Zhu, Shaofeng Zhang, Ruitian Zhang, Dalong Guo, Bin Li, Shuncheng Yan, Shenyue Xu, Pengju Zhang

Mo P97 Dynamics of transfer ionization process in p-He collisions at

intermediate energies
Dalong Guo

Mo P98 Simultaneous projectile and target ionization in neutral hydrogen on helium collisions
Xiaolong Zhu, Xinwen Ma, Shaofeng Zhang, Alexander Voitkiv, Wentian Feng, Ruitian Zhang, Shuncheng Yan, Enliang Wang, Pengju Zhang,Yong Gao, Bin Li, Shenyue Xu, Weiqiang Wen, Dongbin Qian, Dongmei Zhao, Dalong Guo, Shulong Wang, Ying Zhang, Huiping Liu, Dacheng Zhang, Jie Yang

Mo P99 Electron emission from dressed ions in collision with atoms and molecules at intermediate energies
Roberto Rivarola, Daniel Fregenal, Sergio Suárez, Juan Manuel, Guillermo Bernardi, Reinhold Schuch, Juan Fiol,Pablo Fainstein

Mo P100 Cross-sections of single & double electron capture in the interaction of highly charged ions with N_2 gas
Haibo Peng, Yongtao Zhao

Mo P101 Target Scaling for Ionization of Atoms and Molecules by Neutral to Fully Stripped Ions
Robert DuBois, Eduardo Montenegro, Geraldo Sigaud

3.3 Ion-Molecule/clusters or Atom-Molecule/clusters Collisions

Mo P102 Transfer ionization of D^+ and He^+ projectiles with H_2-molecules – electron emission dependency on the internuclear axis
Markus Schoeffler

Mo P103 Calculation of ionization of H_2O by H^+ with classical and semiclassical methods
Luis Errea, Clara Illescas, Luis Mendez, Ismanuel Rabadan

Mo P104 Basis generator method study of electron removal from water molecules by multiply-charged ion impact
Tom Kirchner, Tibor Pausz, Hans Juergen, Mitsuko Murakami, Marko Horbatsch

Mo P131 Ab initio treatment of charge transfer in proton-CH collision
Qixiang Sun, and Bing Yan

5. Collision Involving Condensed Matter

Mo P25 Influence of the surface band structure in photoelectron emission by ultra-short laser pulses

Carlos A. Rios Rubiano, Maria Silvia Gravielle, Dario M. Mitnik, V. M. Silkin

Mo P26 One-step or two-step core-resonant double photoemission from a Ag(100) surface

Zheng Wei, Frank O. Schumann, Changhui Li, Lucie Behnke, Gianluca Di, Giovanni Stefani, Juergen Kirschner

Mo P27 Propagation of visible light through tapered glass capillaries for microbeams

Kyohei Katoh, Wei-Guo Jin, Tatsuya Minowa, Tokihiro Ikeda

Mo P68 Relativistic distorted wave Born approximation (rDWBA) model for ionization of Zn (001) surfaces

Munendra Jain

Mo P69 Influence of surface topography on elastically backscattered electrons

Bo Da, Xing Ding, J.B. Gong, S.F. Mao, Z.J. Ding

Mo P70 Optical properties of nickel derived from reflection electron energy loss spectra

Reka Judit Bereczky, J. Toth, B. Da, S.F. Mao, Z.J. Ding, K. Tőkési

Mo P71 Interplay between elastic scattering and positron reemission from W(100) at low positrons energies

Jim Williams, Sudarshan Kathi, Peter Wilkie, Sergey Samarin, Paul Guagliardo, Vladimir Petrov, Alex Weiss

Mo P72 Guiding of Electrons through a Paired Parallel Glass Plates

Junliang Liu, Deyang Yu, Yingli Xue, Xiaohong Cai

Mo P73 Characterization of 200 eV electrons transmission through a single glass microcapillary at large tilt angles

Reka Judit Bereczky, A.R. Milosavljevic, M. Kovacevic, K. Tőkési, B.P. Marinkovic

Mo P74 Broadening in the energy distribution of electron beams transmitted through a micrometer-sized tapered glass capillary

Samanthi Wickramarachchi, T. Ikeda, D. Keerthisinghe,B. S. Dassanayake, J. A. Tanis

Mo P75 Transmission of energetic electrons through insulating PET nanocapillaries

Darshika Keerthisinghe, B. S. Dassanayake, S. J. Wickramarachchi, A. Ayyad, N. StolterfohtJ. A. Tanis

Mo P76 Induced potential due to plasmon excitation for incoming and outgoing trajectories of external charged particles

Juana Gervasoni, Raul Barrachina, Silvina Segui, Wolfgang Werner

Mo P77 Channeling radiation from polarized electron

Konstantin Korotchenko, Yuri Kunashenko

Mo P78 Quantum Effects for Parametric X-Radiation from Channeled Electrons

Yury Pivovarov, Konstantin Korotchenko

Mo P105 Interference effects in the plasmon fields excited by a diatomic molecule

Juana Gervasoni, Silvina Segui, Nestor Arista

Mo P106 Alignment in magnetic sub-level populations of excited atomic hydrogen formed by single-electron capture from metal surfaces

Daiji Kato

Mo P107 Diffraction of H and H_2 from LiF(100) under fast grazing incidence conditions: A theoretical analysis

Fernando Martin, Alberto S. Muzas, Cristina Diaz

Mo P108 Interaction of low energy carbon ions with tungsten surface

Karoly Tokesi, G. Langer, G. Erdélyi, A. Csik, D. Tskhakaya, D Coster

Mo P109 Dynamic features of slow highly charge ion beam guided with a glass surface

Tokihiro Ikeda, Takao M. Kojima

Mo P110 Diffraction of fast helium atoms from a silver surface: surface potential probe

Carlos Alberto Rios Rubiano, Gisela Anahi, Maria Silvia Gravielle, Nenad Bundaleski, Hocine Khemliche, Philippe Roncin

Mo P111 Nano-structuring of CaF_2 surfaces by slow highly charged ions: simulation and experiment

Georg Wachter, Károly Tőkési, Gerhard Betz, Christoph Lemell, Joachim Burgdörfer, Ayman Sherif, Richard Arthur, René Heller, Stefan Facsko, Robert Ritter, Fritz Aumayr

Mo P112 Energy loss of keV ions in grazing scattering on gold surfaces

Lin Chen, Vladimir Esaulov

Mo P113 Proton microbeam transmission between flat plates

Reka Judit Bereczky, I. Rajta, K. Tőkési

Mo P114 Can the ions be guided with MeV/amu energies? The case of the 1 MeV proton microbeam.

Reka Judit Bereczky, K. Tőkési, I. Rajta, G. U. L. Nagy

Mo P115 Longitudinal Coherence in Fast Atom Diffraction at Surfaces

Helmut Winter, Marco Busch, Erik Meyer, Jan Seifert

Mo P116 Simulation and analytic description of ion guiding through insulating capillaries

Nikolaus Stolterfoht

Mo P117 Simulation of MeV ion transmission through glass micro-capillaries

Amine CASSIMI, M. J. Simon, C. L. Zhou, M. Döbeli, T. Ikeda, A. M. Müller, A. Benyagoub, C. Grygiel, S. Guillous, H. Lebius, A. Mery, I. Monnet, F. Ropars, H. Shiromaru

Mo P118 Transmission of 16 MeV O^{5+} ions through straight and tapered glass capillaries

Asma Ayyad

Mo P119 Density effects on the blocking of ions guided through insulating PET capillaries

Nikolaus Stolterfoht

Mo P120 Guiding of Ar^{7+} ions through a glass microcapillary array

Peter Herczku

Mo P121 The effect of temperature on ion guiding through tapered glass capillaries

Friedrich Aumayr, Elisabeth Gruber, Peter Allinger, Stefan Wampl, Peter Hischenhuber, Yuyu Wang, Marius J. Simon

Mo P122 900 keV O^{6+} guiding through a single macro-capillary: dependence on the incident current

Yehong Wu

Mo P123 Dynamic transmission of intermediate energy proton in PC nanocapillary

Shao Jianxiong, Wang Guangyi

Mo P124 Geant4 simulation of transmission of ions through insulating

nanocapillaries
Hongqiang Zhang

Mo P125 Partial-guiding effects of medium energy O^{6+} ions through a tapered glass macrocapillary
Yingli Xue, Jing Che, Junliang Liu, Yehong Wu, Fangfang Ruan, Wei Wang, Deyang Yu, Xiaohong Cai

Mo P126 Transmission of 200 keV H^{2+} Ions through Tapered Capillaries in PC
Liu Shidong, Zhao Yongtao

Mo P127 Transmission of slow highly charged ions through rectangular nanocapillaries
Nadeem Akram, Hongqiang Zhang, Inna Leonidovna Soroka, Christina Trautmann, Reinhold Schuch

Mo P128 Energy dependence of H^{2+} ions guided through tapered capillaries in PC
Yuyu Wang, Shidong Liu, Yongtao Zhao, Jianlian Duan, Xianming Zhou, Jieru Ren, Rui Cheng, Xing Wang, Yang Yu, Yu Lei, Yuanbo Sun, Yongfeng Li, Haibo Peng, Guoqing Xiao

Mo P129 Focusing 2.6 MeV Kr^{13+} ions by glass micropipette
Guanghua Du, Zheng Wang, Jinlong Guo, Yingli Xue, Ruqun Wu

7. Related Topics

Mo P28 Resonant Compton scattering of photons by excited hydrogenic ions in nonthermal astrophysical plasmas
Sabyasachi Kar, Hua-Wei Li

Mo P29 The ATSP2K and GRASP2K Multiconfiguration Atomic Structure Program Packages
Per Jönsson, Gaigalas Gediminas, Michel Godefroid, Jacek Bieron, Charlotte Froese

Mo P30 Atomic Data and Stark Broadening Parameters for Sn II and Sn III
Jon Grumer, Jiguang Li, Jörgen Ekman, Stefan Gustafsson, Simon Verdebout, Michel Godefroid, Per Jönsson

Mo P31 One-Loop Lamb-shift calculation of Hydrogen atom using the B-spline method
Dong Yin, Yongbo Tang, Haoxue Qiao, Tingyun Shi

Mo P32 The Partitioned Correlation Function Interaction Approach applied to B I, C II and more complex systems

Simon Verdebout, Pavel Rynkun, Per Jönsson, Gediminas Gaigalas, Charlotte Froese, Michel Godefroid

Mo P33 The Eu $6p_{1/2}$ nd autoionizing Rydberg states

JinHong Yang, ChangJian Dai

Mo P34 Study on lifetime of Rydberg states of Eu atom

hua Jing, ChangJian Dai

Mo P35 Auger decay spectra calculations for some small molecules

Osamu Takahashi, Saya Takaki, Naotake Kunitake, Katsuyoshi Yamasaki

Mo P36 Rydberg atoms in a black-body radiation field: Relativistic calculation of radiation transition and ionization characteristics

Tatyana Tkach

Mo P79 A unified description of two dissimilar effects: Zero–energy resonant and transparent collisions

Raul Barrachina, Pablo Macri

Mo P80 The alpha-dependence of transition frequencies

Jacek Bieron, Andrius Alkauskas , Gediminas Gaigalas

Mo P130 Current achievements at our cell micro-irradiation setup using tapered glass capillaries

Volkhard Maeckel

1. Photon Impact

1.1 Weak Field

Tu P1 X-ray ionization and dissociation of OCS into various fragmentation channels

Benji Wales

Tu P2 Photofragmentation of halogenated pyrimidine molecules in the VUV range

Mattea Carmen Castrovilli, Paola Bolognesi, Daniele Catone, Patrick O'Keeffe, Annarita Casavola, avaldi Lorenzo

Tu P3 Double photoionization of thiophene

Ralf Wehlitz, Tim Hartman, Emily Makoutz, Narayan Appathurai

Tu P4 Single and multiple photoionization of W^{q+} tungsten ions in charge states q=1,2,..,5: experiment and theory

Alfred Mueller, Stefan Schippers, Jonas Hellhund, David Kilcoyne, Ronald Phaneuf, Connor Balance, Brendan McLaughlin

2.2 Strong Field

Tu P5 Visualisation of ultra-fast isomerization reactions with FEL radiation at FLASH

Y.H. Jiang, A. Senftleben, K. Schnorr, G. Schmid, M. Kurka, A. Rudenko, L. Foucar, M. Kübel, M.K. Kling, K. Ueda, R. Treusch, J. Ullrich, C.D. Schröter, R. Moshammer

Tu P6 X-ray lasing in diatomic molecules

Victor Kimberg, Nina Rohringer

Tu P7 Spatial interference during the ionization of noble gas atoms by few-cycle XUV laser pulses

Sandor Borbely

Tu P8 Atomic ionization by ultra-short laser pulses: Coulomb-Volkov method with distorsion in the initial and final channels

Jorge Miraglia, Maria Gravielle, Diego Arbo, Marcelo Ciappina

Tu P9 Interference effects in photoelectrons emitted by XUV laser pulse on atoms enhanced by discrete state contributions

Guillermo Bustamante, Vladimir Rodriguez, Raul Barrachina

Tu P10 Resonant absorption effects on the charge state distribution

Wenjun Xiang, Jiaolong Zeng

Tu P11 Sequential multiphoton multiple ionization of Ar and Xe by X-ray free electron laser pulses at SACLA

Hironobu Fukuzawa, Koji Motomura, Sang-Kil Son, Subhendu Mondal, Tetsuya Tachibana1, Yuta Ito, Miku Kimura, Kiyonobu Nagaya, Tsukasa Sakai, Kenji Matsunami, Shin-ichi Wada, Hironori Hayashita, Jumpei Kajikawa, XiaoJing Liu, Raimund Feifel, Per Johnsson, Marco Siano, Edwin Kukk, Benedikt Rudek, Benjamin Erk, Lutz Foucar, Emmanuel Robert, Catalin Miron, Kensuke Tono, Yuichi Inubushi, Takaki Hatsui, Makina Yabashi, Makoto Yao, Robin Santra, Kiyoshi Ueda

Tu P12 Temporal resolution in pump–probe experiments enhanced by noisy pulses

Kristina Meyer, Christian Ott, Philipp Raith, Andreas Kaldun, Juhai Jiang, Arne, Senftleben, Moritz Kurka, Robert Moshammer, Joachim Ullrich, Thomas Pfeifer

Tu P13 Two-electron wave-packet observation in Helium studied by XUV time-resolved multidimensional spectroscopy

Christian Ott, Andreas Kaldun, Philipp Raith, Kristina Meyer, Martin Laux, Alexander Blättermann, Yizhu Zhang, Steffen Hagstotz, Thomas Ding, Robert Heck, Thomas Pfeifer

Tu P14 Electronic decay and fragmentation dynamics of iodomethane, multiply core-ionized by photoabsorption of intense XFEL pulses

K Motomura, E Kukk , S Wada, K Nagaya, H Fukuzawa, S Mondal, T Tachibana, Y Ito, R Koga, T Sakai, K Matsunami, A Rydenko, C Nicolas, X-J Liu, C Miron, Y Zhang, J Chen, A Mailam, D Kim, K Tono, Y Inubushi, T Hatsui, M Yabashi, M Yao, K Ueda

Tu P15 Resolving the enhanced nonlinear double excitation of helium in intense ultrashort extreme-ultraviolet pulses

Toru Morishita

Tu P16 Full fragmentation and enantiomeric selection of the isotopically chiral molecule $CHCl_2Br$

Martin Pitzer, Markus Schoeffler, Maksim Kunitski, Allen S. Johnson, Till Jahnke, Horst Schmidt-Boecking, Reinhard Doerner

Tu P17 Quantum control of H_2^+ photodissociation using shaped intense pulses

Uri Lev, Leigh Graham, Vaibahav Prabhudesai, Adi Natan, Dirk Schwalm, oded heber, Itzik Ben-Itzhak, Christian Madsen, Brett Esry, Yaron Silberberg, Daniel Zajfmann

Tu P18 Interferece of Two Shape Resonances Probed by Rescattering Photoelectron Spectroscopy of CO_2

Misaki Okunishi, Robert R. Lucchese, Toru Morishita, Kiyoshi Ueda

Tu P19 Ionization processes for molecules in strong fields

Linda Hamonou, Toru Morishita, Oleg Tolstikhin, Hirohiko Kono, Shinichi Watanabe

Tu P20 Neutral Rydberg-state excitation of atoms and diatomic molecules in strong laser fields

Hang Lv, Junfeng Zhang, Wanlong Zuo, Mingxing Jin, Haifeng Xu, Dajun Ding

Tu P21 Investigation of the carrier envelope phase effect for molecular ionization

Shanshan Wei, Fuming Guo, Suyu Li, Yujun Yang

Tu P22 The effect carrier-envelope phase on the cut-off of molecular harmonic generation

Jun Wang, Fuming Guo, Suyu Li, Yujun Yang, Dajun Ding

Tu P23 Angular distribution of nitrogen molecular spectral lines from femtosecond la-ser filament in air

Shaohua Sun, Xiaoliang Liu, Bitao Hu

Tu P24 Influence of Higher-Order Kerr Effect on Femtosecond Laser Filamentation in Air at Different Pressures

Suyu Li, Fuming Guo, Yujun Yang, Mingxing Jin, Dajun Ding

Tu P25 Time-dependent electron interference prior to ionization in the hydrogen atom and the hydrogen molecular ion

Alejandro de la Calle, Daniel Dundas, Kenneth Taylor

Tu P26 Enhanced low-energy multiphoton above-threshold ionization in a strong laser field of mid-infrared wavelength

Vladimir Usachenko, Pavel Pyak

Tu P27 Mechanisms on the Photoelectron Angular Distributions of Atoms Ionized in Mid-Infrared Laser Fields

Xiao-Min Tong, Predrag Ranitovic, Nobuyuki Toshima

Tu P28 Evidence of decrease of potential energy in nonsequential double ionization above threshold for electron impact excitation

Zhangjin Chen

Tu P29 Photoionization yield of atomic hydrogen using intense few-cycle pulses

O Ghafur, W.C. Wallace, J.E. Calvert, D.E. Laban, M.G. Pullen, A.N. Grum, K. Bartschat, I.V. Litvinyuk, R.T. Sang, D. Kielpinski

Tu P30 Control of Photoelectron Dynamics in Strong Laser Fields

Jiwei Geng

Tu P31 Below-threshold high-order harmonic generation of Ar atoms in intense ultrashort laser fields: An all-electron time-dependent density-functional approach including macroscopic propagation effects

Peng-Cheng Li, Shih-I Chu

Tu P32 Time-resolved ionization of the hydrogen atom in strong laser fields

Sen Cui, Feng He

Tu P33 Detecting the elastic cross-section through the above threshold ionization spectra

Yuanye Tian, Fuming Guo, Suyu Li, Yujun Yang

Tu P34 Generation and coherent control of even-order harmonics by coupling intense frequency-comb laser with a cavity-mode

Di Zhao, Fu-li Li, Shih-I Chu

Tu P37 Femtosecond double-pulse laser induced Cu plasma spectroscopy

Anmin Chen, Yuanfei Jiang, Hang Liu, Mingxing Jin, Dajun Ding

Tu P38 Focal Spot Analysis of Radially Polarized TW Laser Pulses for Radiation Pres-sure Acceleration

Wenchao Sun, Meicheng Fu, Jie Huang, Hui Jia, Di Kong, Wenhua Hu, Ju Liu, Jiankun Yang, Xiujian Li, Shengli Chang, Junli Qi

Tu P39 Visualization of the electron acceleration process in high-intensity laser-generated plasmas

Malte Kaluza

2. Lepton Impact

2.1 Electron-Atom Collisions

Tu P48 Electron impact ionization of atomic hydrogen using a model

Hamiltonian via a projection operator
Anup Das

Tu P49 Electron Impact total cross sections for Berylium on electron impact from thre-shold to 5 keV
Ashok Chaudhari

Tu P50 Electron-atom collisions of few-particles: Application of the Faddeev-Yakubovsky formalism
Mantile Lekala

Tu P51 Ionization cross sections of M-subshells of Pb atoms by electron impact
Nikolay Borovoy, Ryslan Ischenko

Tu P52 Electron-impact ionization of Cd atoms from ground and metastable states
Roman Fedorko, Tatjana Snegurskaya, Mikola Margitych, Yurij Svida, Ivan Shafranyosh

Tu P53 Triplet and Singlet transition of K-shell electrons in the Relativistic (e, 3e) processes on atoms
Rakesh Choubisa

2.2 Electron-Molecule/Cluster Collisions

Tu P54 Low-energy electron scattering from α-tetrahydrofurfuryl alcohol
Darryl Jones, Luca Chiari, Penny Thorn, Michael Brunger, Gustavo Garcia, Francisco Blanco

Tu P55 Dynamical (e,2e) investigations of structurally related cyclic ethers
Darryl Jones, Joseph Builth-Williams, Luca Chiari, Penny Thorn, Susan Bellm, Hari Chaluvadi, Don Madison, ChuanGang Ning, Birgit Lohmann, Oddur Ingólfsson, Michael Brunger

Tu P56 M3DW Calculations for Electron-Impact Ionization of CH_4
Don Madison, Adam Upshaw, Chuangang Ning

Tu P57 The ionization and dissociation of nitrous oxide studied by fast electron impact
Y.W. Liu, M. Lin, L.F. Zhu

Tu P58 The electronic structure of TEMPO, its cation and anion

Khrystyna Regeta, Radmila Janeckova, Dusan Kubala, Juraj Fedor, Michael Allan

Tu P59 Low energy electron-induced break-up of the tetrahydrofuran molecule: An (e, 2e+ion) study

XueGuang Ren, Thomas Pflueger, Marvin Weyland, Woon Yoon, Hans Rabus, Joachim Ullrich, Alexander Dorn

Tu P60 Electron momentum spectroscopy study on valence electronic structure of Cyclopropylamine

Yufeng Shi, Enliang Wang, Hongjiang Yang, Wei Zhang, Xu Shan, Xiangjun Chen

Tu P61 Dissociative electron attachment to tetrahydrofuran: Rich fragmentation patterns and partial absolute cross sections

Radmila Janečková, Olivier May, Aleksandar Milosavljević, Juraj Fedor

Tu P62 Dissociative electron attachment to methylacetylene and dimethylacetylene: Symmetry versus proximity

Radmila Janečková, Olivier May, Juraj Fedor

Tu P63 Dissociative Excitation of Pyrimidine in the VUV

John William McConkey, Jeff Hein

Tu P64 Electron impact total ionization cross section for simple bio-molecules

Dhanoj Gupta, Bobby Antony

Tu P65 Direct observation of the major components of mouse bones and related compounds by electron Rutherford backscattering spectroscopy

Karoly Tokesi, M. Vos, I. Benko

Tu P66 Electron impact total ionization cross sections on DNA and RNA components

Minaxivinod Vinodkumar, Chetan Limbachiya, Mayuri Barot, Mohit Swadia, Avani Barot

Tu P67 Towards electron-impact dissociation dynamics of biologically relevant molecules in a reaction microscope

Thomas Pflüger, Xueguang Ren, Marvin Weyland, Alexander Arndt, Woonyong Baek, Hans Rabus, Alexander Dorn

Tu P68 Absolute Electron Ionization Cross section for Uracil

Mohammad Rehman, E. Krishnakumar

Tu P69 Absolute Electron Ionization Cross section for Pyrimidine

Mohammad Rehman, E. Krishnakumar

Tu P70 The role of side chains in electron transfer induced fragmentation of aminoacids

Filipe Ferreira da Silva, Joao Rafael, Andre Rebelo, Diogo Almeida, Paulo Limao-Vieira

Tu P71 Electron scattering from pyrimidine

Martina Fuss, Rafael Colmenares, Antonio Muñoz, Francisco Blanco, Diogo Almeida, Paulo Limao-Vieira, Gustavo García

Tu P72 Low-energy electron-induced "oxygen fixation" to DNA SAMs

Yi Zheng, Andrew Bass, Leon Sanche, Nasrin Mirsaleh-Kohan, Sylvain Massey

Tu P73 Absolute measurement oflow energy electron-induced strand-break damage in films of plasmid DNA and plasmid DNA/Dap^{2+} complexes

Yi Zheng, Omar Boulanouar, Mohammad Rezaee, Michel Fromm, Pierre Cloutier, Andrew Bass, Marc Michaud, Darel Hunting , Leon Sanche

Tu P74 Mass spectrometric studies of nucleobase/water clusters

Julia Aysina, Michael Neustetter, Samuel Zöttl, Paul Scheier, Stephan Denifl

Tu P75 Positive and negative ion formation in the selenium vapor by electron impact

Pavlo Markush

Tu P76 Electron Impact Excitation of the Gas-Phase Pyrimidine Molecule

Vitalij Zvenigorodsky

Tu P77 Electron impact dissociative excitation and dissociative ionization of gas-phase nucleic acid base molecules

Maria Sukhoviya

Tu P131 Electron impact total ionization cross sections on DNA and RNA components a theoretical study

Minaxi Vinodkumar, Mayuri Barot, Chetan Limbachiya And Harshad Bhutadia

2.3 Electron-Ion Collisions

Tu P78 Theoretical study of W^{25+} spectra

Gediminas Gaigalas

Tu P79 The collision strengths calculations of Ni XXIII

Quanping Fan, Gang Jiang

Tu P80 Radiation Emission of Fast Electrons in Collisions with “Ion-Sphere” in Dense Plasmas

Xiangdong Li

Tu P81 Effects of doubly excited states on the ionization balance for high-Z plasmas

Zeqing Wu, Bin Duan, Jun Yan

Tu P82 Effects of an ambient radiation field on charge state distribution of NLTE carbon plasmas

Cheng Gao, Jiaolong Zeng

Tu P83 On the behavior of the $_{n1}\ (K,T)_{n2}^{A}$ series of doubly excited states in He-like atoms immersed in weakly coupled plasmas

José Luis Sanz-Vicario, Juan Carlos, Andrés Felipe

Tu P84 Generalized energy approach in electron-collisional spectroscopy of multicharged ions in plasma in Debye approximation

Andrey Loboda

2.4 Collision Involving Exotic particles

Tu P85 Unified treatment of annihilation and protonium formation in slow collisions of antiprotons with hydrogen atoms

Kazuhiro Sakimoto

Tu P86 Vortices in the Electron - Positron - Proton Continuum created by the Positron - Impact Ionization of Hydrogen

Raul Barrachina, Francisco Navarrete, Juan Fiol, Renata Della Picca

Tu P87 Neutrino-helium ionizing collisions: Electromagnetic contribution

Konstantin Kouzakov, Yulia Rodina, Alexander Studenikin

Tu P88 Collisional effects in antiprotonic helium-3

Susanne Friedreich

Tu P89 Magnetic-Field-free measurements of the total cross sections for positron-argon scattering

Kazuaki Nagumo, Masamitsu Hoshino, Hiroshi Tanaka, Yasuyuki Nagashima

Tu P90 Low-energy positron and electron scattering from tetrahydrofuran and 3-hydroxy-tetrahydrofuran

James Sullivan, Luca Chiari, Emma Anderson, Wade Tattersall, Prasanga Palihawadana, Josh Machacek, Casten Makochekanwa, Robert McEachran, Stephen Buckman, Michael Brunger, Gustavo Garcia, Francisco Blanco

3. Heavy Ion Impact

3.2 Atom-atom/ion-ion Collisions

Tu P93 Energy loss and charge states of a Calcium beam after interaction with a hydrogen plasma produced by a theta-discharge
Ge Xu

Tu P94 A Comparative study between complete breakup and target ionization of a Ps – H system
Dipali Ghosh, Chandana Sinha

3.3 Ion-Molecule/clusters or Atom-Molecule/clusters Collisions

Tu P100 Highly charged ion impact on uracil: Cross sections measurements and scaling
Aditya Narain Agnihotri, Lokesh C. Tribedi, S Kasthurirangan, C Champion, R. D. Rivarola

Tu P101 Isotopical effects in electron and atom molecular scattering
Serg Pozdneev

5. Collision Involving Condensed Matter

Tu P35 The structure of $[Mn^{III}_6\ Cr^{III}]^{3+}$ single-molecule magnets deposited in submonolayers and monolayers on surfaces studied by means of molecular resolved atomic force microscopy (AFM) and Kelvin Probe Force Microscopy in UHV
Ulrich Heinzmann, T. Volkmann, A. Brechling, V. Hoeke, T. Glaser

Tu P36 The local magnetic properties of $[Mn^{III}_6\ Cr^{III}]^{3+}$ and $[Fe^{III}_6\ Cr^{III}]^{3+}$ single-molecule magnets deposited on surfaces studied by spin-polarized photoemission and XMCD with circularly polarized synchrotron radiation

Ulrich Heinzmann, A. Helmstedt, N. Dohmeier, N. Mueller, A. Gryzia, A. Brechling, V. Hoeke, E. Krickemeyer, T. Glaser, M. Fonin, S. Bouvron, P. Leicht, T. Tietze, E. Goering, K. Kueppe

Tu P40 Experimental observation of the vibrational wavefunction of $^4He_2$, $^4He_3$ and $^4He_2$ ^3He using strong laser-fields

Jörg Voigtsberger , Jasper Becht, Nadine Neumann, Felix Sturm, Maksim Kunitski, Anton Kalinin, Jian Wu, Stefan Zeller, Markus Schoeffler, Wieland Schöllkopf, Dario Bressanini, Achim Czasch, Lothar Ph, Robert Grisenti, Till Jahnke, Reinhard Dörner

Tu P41 Specific Spectrum of Cherenkov Radiation from Relativistic Heavy Ions Caused by Slowing Down in Radiator

Yury Pivovarov, Elena Fiks

Tu P102 Nanostructure formation on muscovite mica surface induced by ions

Hongqiang Zhang, Peng Zhou

Tu P103 Visible light emission from Kr^{q+} ion-bombarded GaAs surface

Qiumei xu, Zhihu Yang, Yehong Wu, Zhongyong Song, Yipan Guo

Tu P104 Electron emission from tungsten surface induced by neon ions

Zhongfeng Xu, Lixia Zeng, Yongtao Zhao

Tu P105 Potential sputtering on SiO_2 and Au induced by highly charged ions impact

Rui Cheng, Tieshan Wang, Yongtao Zhao, Yuyu Wang, Haibo Peng, Guoqing Xiao

Tu P106 Secondary Electron Emission from Carbon Foils under O^{2+} Ion Impact

Yang Yu, Shidong Liu, Yongtao Zhao, Yuyu Wang

Tu P107 Coherent bremsstrahlung from neutrons

Yuri Kunashenko

Tu P109 Two-Dimensional Thermal Simulations of Al and C ion Strippers for Experiments at SPIRAL2 Using the Highest Beam Intensities

Naeem Tahir

Tu P110 Implantation of Multiply Charged Sulfur Ions in Water Ice

jingjie ding, Philippe Boduch, Alicja Domaracka, Thomas Langlinay, Xueyang Lv, Maria Elisabetta, Hermann Rothard, Gianni Strazzulla

Tu P111 Density effect for equilibrium charge distribution of nitrogen ions

Nikolay Novikov, Teplova Yana

Tu P112 Evaluation of non-equilibrium parameters for light ions passing

through thin films

Yana Teplova, Belkova Yulia

Tu P113 Barkas effect in the stopping power for ions with different ionization degrees

Claudio Archubi

Tu P114 Modifications of the magnetic properties of MnAs thin films under impact of slow highly charged ions

Martino Trassinelli, Mahmoud Eddrief, Victor H. Etgens, Sarah Hidki, Vasilica Gafton, Emmanuelle Lacaze, Emily Lamour, Massimiliano Marangolo, Christophe Prigent, Jean-Pierre Rozet, Sébastien Steydli, Yunlin Jacques, Dominique Vernhet

Tu P115 Microscopic model of material excitation during relaxation of electron subsystem in swift heavy ion tracks

Pavel Terekhin, Sergey Gorbunov, Nitita Medvedev, Alexei Prosvetov, Ruslan Rymzhanov, Alexander Volkov

Tu P116 Resonant Coherent Excitation of Hydrogenlike Fe^{25+} in a Ge crystal

Yuji Nakano

Tu P117 Cherenkov Radiation from Relativistic Channeled Particles

Elena Fiks, Yury Pivovarov, Oleg Bogdanov

Tu P118 Influence of Helium pre-irradiation on the mechanical property of He-irradiated material

Ji Wang, Ning Gao, Zhiguang Wang, Tielong Shen

Tu P119 The characteristic L x-ray energy shifts of thick and thin Au target by 84 MeV C^{4+} ions bombardments

Zhangyong Song, Zhihu Yang, Xiaohong Cai, Guoqing Xiao

Tu P120 Hardening Of Ferritic/Martensitic Steel Induced By Self-ion Irradiation

Huiping Zhu

Tu P121 High-resolution x-ray spectra from highly charged Si, S and Cl ions showing evidence of fluorescence active resonant states

Siddharth Kasthurirangan, Lokesh C. Tribedi Tapan K. Mukherjee, J P Santos, J K Saha, A N Agnihotri, A Banerjee, D Misra, A Kumar, A M Costa, P Indelicato

Tu P122 The study of damage produced by H-ion and He-ion implantation in Lithium tantalate crystal

Lilong Pang, Zhiguang Wang, Cunfeng Yao, Jianrong Sun, Minghuan Cui, Kongfang

Wei, Tielong Shen, Yanbin Sheng, Yabin Zhua, Yuanfei Li, Hailong Chang, Ji Wang, Huiping Zhu

Tu P123 Study on the electron configuration and the average equilibrium charge-state of highly charged Kr^{13+} ion

Cexiang Mei, Xiaoan Zhang, Yongtao Zhao, Jieru Ren, Xianming Zhou, Guoqing Xiao

Tu P124 Dependence of X-Ray emission cross section on energy loss straggling

Yuanbo Sun, Yongtao Zhao

Tu P125 Effects of multiple ionization on total L X-ray emission by proton impact

Xing Wang, Yongtao Zhao, Xianming Zhou, Rui Cheng, Yu Lei, Yuanbo Sun, Guoqing Xiao

Tu P126 Fluorescence emission from CsI(Tl) crystals induced by high-energy heavy ions

Yongtao Zhao, Yuanbo Sun, Yu Lei , Rui Cheng, Xianming Zhou, Yuyu Wang, Jieru Ren

Tu P127 Charge state effect on Si K X-ray emission induced by I^{q+} ions impacting

Yu Lei, Yong Zhao

Tu P128 Study of the Inelastic Energy Loss of H^+ and H^{2+} in Silicon in E<90 keV Energy Region

Tieshan Wang

Tu P129 K-Shell ionization cross sections of Ti, Cr, Ni, Cu and Zr in collisions with ^{16}O ions at MeV/u energies

Adela Consuela Scafes

Tu P130 Effects of swift heavy ion irradiation on structural and magnetic properties for metallic glasses

Jianrong Sun, Wang Zhiguang, Wang Yuyu

6. Experimental Techniques

Tu P42 Passively phase-stable monolithic all-reflective two-dimensional electronic spectroscopy based on a 4-quadrant mirror

Yizhu Zhang, Kristina Meyer, Christian Ott, Thomas Pfeifer

Tu P43 Cleavage enhancement of specific chemical bonds in DNA-Cisplatin complexes induced by X-rays

Yi Zheng, Xiaobin Yao, Xinglan Luo, Xianzhi Fu

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7. Related Topics

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