

7. International Conference on the Physics of Highly Charged Ions



3. Announcement



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7. International Conference on the Physics of Highly Charged Ions (HCI-94)

**September 19 - 23, 1994
TU Wien, Vienna, Austria**

THIRD & FINAL ANNOUNCEMENT

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CONFERENCE ORGANIZATION

Hannspeter Winter (Conference Chairman)
Friedrich Aumayr (Chairman of the Local Organizing Committee)

Institut für Allgemeine Physik, Technische Universität Wien,
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Co-organizer
 Austrian Physical Society (ÖPG)

CONFERENCE DATE AND VENUE

September 19 - 23, 1994

Technische Universität Wien
 Physics building "Freihaus", 1. & 2. floor
 Wiedner Hauptstr. 8, A-1040 Vienna, Austria

LOCAL ORGANIZING COMMITTEE

F. Aumayr (Chairman)
 G. Betz, H. Kurz, J. Langbauer,
 C. Lemell, P. Lepusch, M. Pöckl, P. Ullmann
 M. Vana, P. Varga, HP. Winter, D. Wutte

INTERNATIONAL ADVISORY BOARD

K. Taulbjerg (Denmark), M. Barat, S. Bliman, J.P. Briand (France)
 P. Mokler, E. Salzborn, N. Stolterfoht (Germany)
 H. B. Gilbody, N. J. Peacock (Great Britain), D. Berenyi (Hungary)
 R. K. Janev (IAEA), H. Tawara (Japan), R. Morgenstern (The Netherlands)
 V. Zoran (Romania), V. V. Afrosimov, E. Donets (Russia)
 A. Barany, I. Martinson (Sweden), U. Rasulev (Uzbekistan)
 J. Burgdörfer, S. Datz, R. E. Olson, D. Schneider, M. Stöckli (USA)
 HP. Winter (Austria, coordinator)

SPONSORS

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Bundesministerium für Wissenschaft und Forschung
 International Science Foundation
 Creditanstalt Bankverein
 Stadt Wien

Austrian Airlines
 Wiener Tourismusverband
 Balzers Hochvakuum GesmbH
 EG&G Berthold Analytische Instrumente

SCIENTIFIC PROGRAM

The Scientific Program includes

- 5 invited review lectures,
- 10 invited progress reports,
- 3 poster sessions and
- 2 "ad hoc" sessions (assembled during the conference)

covering the following conference topics.

- * HCI - Fundamental Aspects, Structure and Spectroscopy
- * Collisions of HCI with Photons, Electrons, Atoms, Molecules and Ions
- * Interaction of HCI with Solids and Solid Surfaces
- * HCI related Processes in Plasmas and Strong Fields
- * HCI - Production, Experimental Methods and Applications.

OVERVIEW

CONFERENCE PROGRAM

Invited *review lectures* (R) last 50 minutes followed by 10 minutes for questions and discussion.

Invited *progress reports* (P) last 35 minutes followed by 10 minutes for questions and discussion.

Oral Presentations within the *ad-hoc sessions* should last 5 minutes with the time limit for discussion fixed by the session chairman.

SUNDAY, September 18, 1994

- 15:00 Registration
- 17:30 - 19:30 Welcome Reception

MONDAY, September 19, 1994

- 08:00 Registration
- 09:00 - 09:25 Welcome and opening of the conference
- 09:25 - 10:25 R01
Eva LINDROTH (Chalmers Univ. of Technology, Sweden)
Relativistic and QED effects in highly charged ions
- 10:25 - 11:00 Coffee break
- 11:00 - 11:45 P01
Elmar TRÄBERT (Ruhr-Universität Bochum, Germany)
Spectroscopy on highly charged ions - recent advances with laser-produced plasmas and time-resolved ion beam spectroscopy
- 11:45 - 12:30 P02
Steve ELLIOTT (Lawrence Livermore National Laboratory, USA)
Studies with highly charged ions with EBIT and Super-EBIT
- 12:30 - 14:00 Lunch break
- 14:00 - 17:00 POSTER SESSION (Mo)
- 17:00 - 17:45 P03
Jean Paul DESCLAUX (CEN-Grenoble, France)
Auger transitions involving Rydberg states in multiply excited atoms

TUESDAY, September 20, 1994

- 09:15 - 10:15 R02
Jim McGUIRE (Tulane University, USA)
Theory of highly charged ion - atom collisions
- 10:15 - 11:00 Coffee break
- 11:00 - 11:45 P04
Michail N. PANOV (Joffe Institute, Russia)
Correlation in electron capture by highly charged ions
- 11:45 - 12:30 P05
Stefan SCHIPPERS (Rijksuniversiteit Groningen, The Netherlands)
Anisotropy effects in single electron transfer between laser excited atoms and highly charged ions
- 12:30 - 14:00 Lunch break
- 14:00 - 17:00 POSTER SESSION (Tu)
- 17:00 - 18:30 AD HOC SESSION I
organized by Joachim BURGDÖRFER (Univ. of Tennessee, USA)

WEDNESDAY, September 21, 1994

- 09:15 - 10:15 R03
H.-Jürgen KLUGE (GSI, Germany)
Highly charged ions in storage rings and ion traps
- 10:15 - 11:00 Coffee break
- 11:00 - 11:45 P06
Gordon DUNN (JILA/University of Colorado, USA)
Collisions of electrons with highly charged ions
- 11:45 - 12:30 P07
Pascal SORTAIS (GANIL, France)
Recent progress in making highly charged ion beams
- 12:30 - 14:00 Lunch break
- 14:00 - 17:00 POSTER SESSION (We)
- 17:00 - 18:30 AD HOC SESSION II
organized by Anders BARANY (Manne Siegbahn Institute, Sweden)

THURSDAY, September 22, 1994

- 09:15 - 10:15 R04
Edmund TAGLAUER (Max Planck Institut für Plasmaphysik, Germany)
Probing surfaces with low - energy ions
- 10:15 - 11:00 Coffee break
- 11:00 - 11:45 P08
Yasumichi YAMAMURA (Okayama University of Science, Japan)
Simulation of low-energy highly charged ion - solid interaction
- 11:45 - 13:00 Lunch break
- 13:00 - 17:30 CONFERENCE OUTING
Afternoon excursion by bus to the famous *baroque monastery Melk*
and the lovely *Danube valley Wachau*
- 18:00 CONFERENCE DINNER
at "Weinkolleg Kloster UND" Krems, Wachau

FRIDAY, September 23, 1994

- 09:15 - 10:15 R05
Dennis MATTHEWS (Lawrence Livermore National Laboratory, USA)
X-ray lasers
- 10:25 - 11:00 Coffee break
- 11:00 - 11:45 P09
Tilman D. MÄRK (Univ. Innsbruck, Austria)
Stability of multiply-charged cluster ions
- 11:45 - 12:30 P10
Robert W. McCULLOUGH (The Queen's University of Belfast, UK)
Electron capture by slow multiply charged ions from H(1s)
- 12:30 Closing of the conference

POSTER CONTRIBUTIONS

The program of poster sessions is summarized on the following pages.

Days of presentation (Mo, Tu, We) and numbers of the poster boards (01 to 80) are listed together with title and authors.

MONDAY, September 19, 1994

- Mo01 *Ion Charge-State Production at Photoionization Near the K-edge in Argon and Potassium*
Berry H.G., Azuma Y., Cowan P.L., Gemmell D.S., Le Brun T., Ya Amusia M.
- Mo02 *Optical Detection of Long-lived Levels*
Doerfert J., Träbert E., Habs D., Wolf A., Repnow R.
- Mo03 *Spectra simulations of Be-like $1s2x2ynz$ -satellite transitions from highly ionized ions*
Rosmej F.B.
- Mo04 *The diagnostic ratio of the intercombination and resonance lines of He-like ions: influence of energetic electrons and nonstationarity*
Rosmej O.N., Rosmej F.B.
- Mo05 *Dependence of the stabilization in double-electron capture on the nuclear charge*
van der Hart H.W., Vaeck N., Hansen J.E.
- Mo06 *Decay properties of Hollow Atoms*
Vaeck N., Hansen J.E.
- Mo07 *Spectral Distribution of the Two-Photon Decay of He-Like Krypton*
Ali R., Berry H.G., Dunford R.W., Gemmell D.S., Kanter E.P., Mokler P.H., Livingston A.E., Cheng S., Curtis L.J.
- Mo08 *Cascading De-Excitation in Multiply Ionized Atoms*
Günther C., Hartmann E.
- Mo09 *Lifetime Measurement of the $1s2s\ ^3S_1$ Level in He-like Mg^{10+}*
Stefanelli G., Beiersdorfer P., Decaux V., Widmann K.
- Mo10 *Wavelengths Measurements of the He-like Krypton K-Shell Spectrum*
Widmann K., Beiersdorfer P., Decaux V.
- Mo11 *Theoretical Studies of Structure and Spectra of Complex Highly Charged Ions*
Rudzikas Z., Merkeliš G., Vilkas M.J., Kisielius R., Gaigalas G.
- Mo12 *Properties of High-Lying Doubly Excited States of Ne^{8+} Populated During $Ne^{10+} + He$ Collisions*
Sanchez I., Bachau H.
- Mo13 *Two-Step Contributions in Double Electron Transfer*
Gayet R., Hanssen J., Martínez A.E., Rivarola R.D.

- Mo14 *First measurements of state-selective one-electron capture by 4-8 keV N^{4+} ions in H and H_2*
McCullough R.W., McLaughlin T.K., Hodgkinson J.M., Gilbody H.B.
- Mo15 *Complex Substate Amplitudes Created by Double Electron Capture*
 Khemliche H., Prior M.H., Schneider D.
- Mo16 *Ion-impact induced fragmentation of water molecules*
Werner U., Beckord K., Becker J., Lutz H.O.
- Mo17 *Dissociative Electron Capture*
Remscheid A., Huber B.A., Wiesemann K.
- Mo18 *Impact-Parameter Dependent L-K-Vacancy Transfer in Ni^{q+} “ Ge-Collisions Using Solid Targets*
Jäger M., Schulz M., Kandler T., Bräuning H., Demian A., Warczak A., El Sadek A., Ullrich J., Schmidt-Böcking H.
- Mo19 *Resonant Transfer Excitation determined via x-ray emission in U^{90+} “ C-collisions*
Kandler T., Mokler P.H., Stöhlker T., Kozhuharov C., Geissel H., Irnich H., Münzenberg G., Nickel F., Scheidenberger C., Suzuki T., Stachura Z., Warczak A., Kucharski M., Rymuza P., Dunford R.W., Dauvergne D.
- Mo20 *Complete Momentum Determination of all Fragments from Coulomb-Exploded Molecules*
Moshhammer R., Unverzagt M., Schmidt W., Ullrich J., Mann R.
- Mo21 *Groundstate Excitation of H- and He- like Bi projectiles Observed in Collisions with Low-Z targets*
Stöhlker T., Geissel H., Kozhuharov C., Mokler P.H., Moshhammer R., Münzenberg G., Rymuza P., Scheidenberger C., Stachura Z., Warczak A., Ullrich J., Halabuka Z., Trautmann D., Indelicato P.
- Mo22 *Radiative Electron Capture in Relativistic Heavy-Ion Atom Collisions*
Stöhlker T., Geissel H., Irnich H., Kandler T., Kozhuharov C., Kucharski M., Mokler P.H., Münzenberg G., Nickel F., Rymuza P., Scheidenberger C., Suzuki T., Stachura Z., Warczak A., Eichler J., Ichihara A., Shirai T.
- Mo23 *Radiative Recombination of Free Electrons with One- and Two-Electron High-Z Ions applied for Atomic Structure Investigations*
 Elliott S.R., Marrs R.E., Stöhlker T.
- Mo24 *Ionisation Collision Dynamics in 5.9 MeV/u U^{65+} on Ne Collisions*
 Unverzagt M., Schmidt W., Moshhammer R., Jardin P., Mann R., Ullrich J., Dörner R., Olson R.E., Schmidt-Böcking H.
- Mo25 *Target Ionisation by Fully and Partially Stripped Projectiles*
Jakubaša-Amundsen D.H.
- Mo26 *Resonant Electron Impact Ionization and Recombination of Li-like Cl^{14+} and Si^{11+} at the Heidelberg Test Storage Ring*
Kenntner J., Linkemann J., Broude C., Habs D., Hofmann G., Müller A., Salzborn E., Schwalm D., Wolf A.
- Mo27 *Laser Stimulated Recombination in Merged Ion and Electron Beams*
Schramm U., Schüßler T., Grieser M., Habs D., Rüter T., Schwalm D., Wolf A.

- Mo28 *Cross sections for the interaction of highly charged Ta and Ti-ions with H₂ and He at low collision energies*
Schwarz U., Linder F., Rohr K.
- Mo29 *Cusp-Electron Production in 0.5-1.5 MeV/u O⁷⁺ + Ar Collisions*
 Zhu M., Haar R.R., Ferguson S.M., Woitke O., Tanis J.A., Sarkadi L., Pálinkás J., Závodszky P.A., Berényi D.
- Mo30 *Recombination in Kr³⁴⁺ + H₂ Collisions*
 Zaharakis K., Haar R.R., Tanis J.A., Woitke O., Zhu M.
- Mo31 *Measurement of KLM, KLN, and KMN Dielectronic Recombination Resonances in Near Heliumlike Uranium Ions*
 Knapp D., Tanis J.A.
- Mo32 *Electron Collisions with Very Highly Charged Ions - Relativistic Calculations*
Moore D.L.
- Mo33 *Electron impact ionization of Kr^{q+} (q=7-13)*
Oualim E.M., Duponchelle M., Defrance P.
- Mo34 *Charge Exchange Processes in SiH²⁺*
 Chambaud G., Bliman S., Rosmus P., Senekowitsch J.
- Mo35 *Influence of the Molecular Alignment on Electron Capture from H₂ by O⁸⁺ Projectiles*
 Busnego H.F., Corchs S.E., McGuire J.H., Rivarola R.D.
- Mo36 *Relativistic Highly Charged Ion Collisions*
Fojón O.A., Rivarola R.D.
- Mo37 *Dielectronic Recombination of Na-like Iron*
Linkemann J., Kenntner J., Müller A., Wolf A., Habs D., Schwalm D., Spies W., Uwira O., Frank A., Pindzola M.S., Badnell N.R.
- Mo38 *Electron-Impact Ionization of Sodium-like Fe¹⁵⁺ Ions*
Linkemann J., Kenntner J., Müller A., Wolf A., Habs D., Schwalm D., Spies W., Uwira O., Frank A., Liedtke A., Hofmann G., Salzborn E., Pindzola M.S., Badnell N.R.
- Mo39 *Towards a Precision Spectroscopy of Very Highly Charged Ions by Employing Dielectronic Recombination*
 Spies W., Uwira O., Müller A., Linkemann J., Empacher L., Frank A., Kozhuharov C., Mokler P.H., Bosch F., Klepper O., Franzke B., Steck M.
- Mo40 *Recombination of U²⁸⁺ Ions in a Dense, Cold Electron Target*
Uwira O., Müller A., Spies W., Frank A., Linkemann J., Empacher L., Mokler P.H., Becker R., Kleinod M., Ricz S.
- Mo41 *Target Dependence of Double Capture Processes in A^{q+} (1s²) + He, H₂ (q = 4 to 6) at V_{coll} ≈ 0.4 a.u.*
 Benhenni M., Moretto-Capelle P., Bordenave-Montesquieu A.
- Mo42 *Theory of the complete spectrum of ejected electrons in highly-charged ion collisions*
 Madsen J. N., Taulbjerg K.

- Mo43 *Charge states and energy loss of relativistic heavy ions in matter*
Scheidenberger C., Geissel H., Andersen J.U., Andriamonje S., Chevallier M., Cohen C., Cue N., Czajowski S., Folger H., Forster J.S., Irnich H., Kandler T., Kirsch R., Kozhuharov C., Krivosheev O., L'Hoir A., Magel A., Mikkelsen H.H., Mokler P.H., Münzenberg G., Nickel F., Pfützner M., Pivovarov Yu.L., Poizat J.C., Politis M.F., Remillieux J., Röhl C., Rymuza P., Schmaus D., Schmidt K.-H., Schwab W., Stöhlker T., Stümmerer K., Suzuki T., Toulemonde M., Voss B., Wollnik H.
- Mo44 *The Effects of Incident Charge State on Secondary Ion and Total Sputter Yields for Few Electron High Z Ions Incident on Insulators*
Briere M.A., Schneider D., Ruehlicke C., Schenkel T., Schiwietz G., Biersack J.P., Cahill T.
- Mo45 *The Scattering Behavior of Highly Charged Ions Under Grazing Incidence Conditions on Atomically Flat Graphite*
Briere M.A., Schneider D., Schenkel T., Ruehlicke C., Reaves M.
- Mo46 *Studies on the Effect of the Incident Charge State on the Energy Loss and Range of Highly Charged Ions in Thin Film Solids*
Briere M.A., Schneider D., Schenkel T., Ruehlicke C., Bauer P., Biersack J.P.
- Mo47 *AFM-Studies of a New Type of Radiation Induced Defect on Insulating Surfaces Caused by Few Electron High Z Ion Impact*
 Ruehlicke C., Briere M.A., Schneider D.
- Mo48 *Radiative Deexcitation of 17 keV/q Ar¹⁷⁺ Ions Incident on a Be Surface Measured with a Microcalorimeter*
LeGros M., Silver E., McDonald J.W., Bardin S., Schuch R., Schneider D.
- Mo49 *Auger Transition Rates in Grazing Atom Surface Collisions*
Alducín M., Juaristi I., Echenique P.M.
- Mo50 *Auger Capture and Transition Rates for HCI in an Electron Gas*
Díez Muiño R., Arnau A., Echenique P.M.
- Mo51 *Velocity dependence of the ion-induced kinetic electron emission at surfaces*
García de Abajo F.J.
- Mo52 *Negative Ion Production From Shallow Angle Scattering of Slow, Highly Charged Ions by Highly Oriented Pyrolytic Graphite, C(0001)*
 Briere M.A., Reaves M., Kessel Q.C., Pollack E., Smith W.W.
- Mo53 *Auger and X-Ray Spectra Formed at HCI Neutralization Near the Metal Surface*
Mirakhmedov M.N.
- Mo54 *The Emission of Atomic and Molecular Ions under Single and Multiple-Charged Rare Gas Ion Bombardment of LiF, KCl, SiC*
 Atabaev B.G., Radzhabov Sh.S., Akhmadzhanova M.Kh.
- Mo55 *Interactions of High-Energy, Highly Charged Xe Ions with Fullerenes*
 Le Brun T., Berry H.G., Cheng S., Dunford R.W., Gemmell D.S., Kanter E.P., Bauer W.
- Mo56 *Influence of Atomic Properties of Load Ions on Pinched Plasma Parameters in Annular Z-Pinches*
Raus J., Babicky V.
- Mo57 *Neutral density measurements at the plasma edge of the Tore Supra Tokamak with CVI charge exchange line*
 Hess W.R., Mattioli M., Guirlet R., Druetta M.

- Mo58 *Charge exchange spectroscopy of Xe^{q+} ($q = 7-9$) + He, H_2 collisions*
Druetta M., Hitz D.
- Mo59 *A Numerical Study of the Gas Mixing Effect in ECR Ion Source*
 Zhao H., Efremov A., Kutner V.
- Mo60 *Recent Results from the EBIT at NIST*
Meyer E.S., Serpa F.G., Takacs E., Morgan C., Aglitskiy Y., Roberts J.R., Gillaspay J.D., Chantler C., Hudson L.T., Deslattes R.D., Brown C.M., Laming J.M.
- Mo61 *Laser Ion Source Torch (LIST) for Highly Charged Ions*
Demjanov A.V., Sidorov S.V., Avdeev S.A., Jatcenko B.P.
- Mo62 *Measurement of the Temperature of Highly Charged Ions Produced in an Electron Beam Ion Trap*
Beiersdorfer P., Decaux V., Elliott S., Widmann K.
- Mo63 *Measurement of the 2s Lamb shift in lithiumlike Th^{87+}*
Beiersdorfer P., Chen M., Elliott S.R., Knapp D.
- Mo64 *Excitation mechanisms of $2s_{1/2}-2p_{3/2}$ and $2p_{1/2}-2p_{3/2}$ transitions in U^{82+} through U^{89+} produced and trapped in an Electron Beam Ion Trap*
 Osterheld A., Beiersdorfer P.
- Mo65 *Application of Ion-Cyclotron Resonance Modes to Highly Charged Ions in an Electron Beam Ion Trap*
 Beck B., Becker S., Beiersdorfer P., Elliott S.R., Schweikhard L.
- Mo66 *Trapping of Highest Charge State Ions in a Cryogenic Penning Trap*
Schneider D., Church D., Weinberg W., Steiger J., Beck B., McDonald J.W., Magee E., Knapp D.
- Mo67 *Ionization Cross Sections for Hydrogenlike High-Z Ions*
 Marrs R.E., Elliott S.R., Scofield J.H.
- Mo68 *A Method of Ion Stripping up to the Nucleus State*
Dougar-Jabon V.D., Umnov A.M.
- Mo69 *Life-time and Charge State Distribution of Ions in Sources with a Potential Pit*
Dougar-Jabon V.D.
- Mo70 *The effect of radiation wavelength on output of highly charged ions from laser produced plasmas*
Roudskoy I.V.
- Mo71 *Progress in Making HCI Beams from Laser Produced Plasma*
Sharkov B.Yu.
- Mo72 *Status of a New Electron-Ion Crossed-Beams Experiment for Electron Scattering Studies*
Frank A., Müller A., Bauer C., Liedtke A., Schnell H.
- Mo73 *Charge state distributions and stopping power of Cl ions in the MeV/u energy range interacting with cold gas and fully ionised plasma*
Gardés D., Chabot M., Box P., Deutsch C., Mayanard G., Pouey M., André W., Fleurier C., Hong D., Wohrer K.
- Mo74 *Dense Pinch Plasma Highly Charged Ion Source*
Zoita V.

TUESDAY, September 20, 1994

- Tu01 *Beam-foil measurements on Highly Ionized Nb and Zr at RILAC*
Hutton R., Huldt S., Nyström B., Martinson I., Ando K., Kambara T., Kanai Y., Nakai Y., Awaya Y.,
 Sugar J.
- Tu02 *Collision based spectroscopy at the Uppsala ECR ion source*
Nyström B., Huldt S., Hutton R., Larson M., Wännström A.
- Tu03 *Relativistic Calculations of Boron-like Systems*
 Staudte D., Mårtensson-Pendrill A.M., Lindroth E.
- Tu04 *Relativistic Calculations for the Intercombination and Resonance Transitions in the Zn-Sequence*
Chou H.S., Chi H.C., Huang K.N.
- Tu05 *Higher Order QED Corrections to the Energy Levels of the Multicharged Ions*
Labzowsky L.
- Tu06 *Ab Initio Electronic and Ionic Shell Structure in the Stability and Dynamics of Charged Metal Clusters*
Nikulin V.K., Trzhaskovskaya M.B.
- Tu07 *Selective beam-gas spectroscopy of the quartet system of NV*
Denis A., Désesquelles J., Martin S., Bernard J., Chen L., Ouerdane Y.
- Tu08 *Production, identification and properties of multiply-charged fullerene cations*
Wörgötter R., Dünser B., Scheier P., Märk T.D.
- Tu09 *Scaling law for the electron induced ionization cross section for highly-charged ions*
 Deutsch H., Märk T.D.
- Tu10 *Ejected Electron Spectra from Triplet States of Double-Excited O^{4+} and Ne^{6+}*
Kanai Y., Kambara T., Awaya Y., Ida H., Matsui Y., Takayanagi T., Wakiya K., Nakamura N., Koide
 M., Ohtani S.
- Tu11 *Binary Encounter Electron Peaks for 0° Electrons in Collisions of Bi^{q+}*
Kanai Y., Kambara T., Oura M., Nakai Y., Awaya Y.
- Tu12 *Polarization effects in collisions of HCl with photons*
Manakov N.L.
- Tu13 *High Order Vacuum Polarization corrections to HCl spectra*
Manakov N.L.
- Tu14 *Enhanced He I Line Emissions Observed from He Plasmas in Contact with H_2*
 Sato K., Takiyama K., Oda T., Furukane U., Akiyama R., Miura M., Otsuka M., Tawara H.
- Tu15 *The influence of screening effect on the energies of Coster-Kronig electrons produced during the autoionizing decay of $1s^2 2p^9l$ Rydberg states of sulfur ions*
 Tolstikhina I.Yu., Tawara H.
- Tu16 *Double-Electron Removal from H⁻ in Collisions with Highly Charged Ions*
Presnyakov L.P., Tawara H., Uskov D.B.

- Tu17 *Radiative and Non-Radiative Electron Capture to the Continuum in Energetic Collisions of Highly Charged Ions with Atoms*
Presnyakov L.P., Tawara H.
- Tu18 *Unified and Independent Processes Recombination Cross Sections for U^{88+}*
Pindzola M.S., Chen M.H., Badnell N.R.
- Tu19 *Electron transfer and excitation in slow collisions between bare He, Be, and C ions with atomic helium*
Fritsch W.
- Tu20 *Quantitative Two-Center Effects in Single Ionisation*
Gulyás L., Fainstein P.D., Salin A.
- Tu21 *Two-Center Electron-Electron Interaction in Energetic Atomic Collisions*
Sulik B., Ricz S., Kádár I., Grether M., Köhrbrück R., Schiwietz G., Stolterfoht N.
- Tu22 *Effects of Electron-Electron Interaction in Ionization by Structured Particle Impact*
Tökési K., Wang J., Olson R.E.
- Tu23 *Electron capture in $He^{2+} + He$ collisions up to 1500 keV/amu projectile impact*
Tökési K., Hock G.
- Tu24 *Electron Capture in Multicharged Ion Collisions with Laser Excited Rb^* Rydberg Atoms*
Pesnelle A., Trainham R., Pascale J., Andrä H.J.
- Tu25 *Excitation of Ar^{6+} ($3s^2 \ ^1S \ \leftarrow \ 3s3p \ ^1P$) by Electron Impact*
Guet C., Huber B.A., Jalabert D., Maurel M., Ristori C., Rocco J.C.
- Tu26 *Differential Cross Sections for Single-Electron Capture Processes by Low-Energy Multiply Charged Ions*
Kamber E.Y., Akgüngör K., Edens J., Ferguson S.M.
- Tu27 *Regularization and application of probability absorbers in atomic collisions*
Errea L.F., Sánchez P., Riera A.
- Tu28 *$H^+ + H^-$ collisions*
Errea L.F., Harel C., Jimeno P., Jouin H., Méndez L., Riera A.
- Tu29 *Discretized close-coupling calculation of double excitation of He by impact of H^+ , He^{2+} , Li^{3+} , C^{6+} and F^{9+}*
Martín F., Salin A.
- Tu30 *Hidden Fano interferences in the photoionization of multicharged He-like ions*
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AUA Werbung linke Seite

INFORMATION FOR CONTRIBUTORS

The official conference language is English. No simultaneous translation will be provided.

POSTER PREPARATION

There will be three poster sessions (Mo, Tu, We).

The maximum poster size is **94 cm** (width) x **185 cm** (height). Material (tape) for fixing the posters will be provided; use of pins, nails etc. is not possible.

The days and numbers for poster board allocations are given in the poster sessions program in this notice. These numbers correspond to the numbering on the boards. The title of each presentation, and names and affiliations of the authors should be displayed at the top of the poster in sufficiently large lettering (at least 30 mm in height).

Posters should be put up in the morning of the allocated day and must be removed in the evening of that same day. Posters can be visited at any time during the day. However, the authors will be expected to present their contribution(s) during the poster session in the afternoon. Posters can only be presented if at least one author has been registered as a regular or student participant.

"AD - HOC" SESSIONS

In lieu of the now quite common, but sometimes not fully satisfactory "hot topics" sessions, the international advisory board has decided to include two "ad-hoc" sessions into the conference program. Contents of these two sessions, which are planned for 60 min. each, with "open end" for discussions, will be at the exclusive responsibility of the respective chairmen Profs. J. Burgdörfer (University of Tennessee at Knoxville and Oak Ridge National Laboratory, USA) and A. Bárány (University of Stockholm, Sweden). The chairmen will search during the conference for particularly interesting topics, and will invite qualified participants to short (about 5 minutes) oral presentations with special emphasis on their latest results and/or innovative methods. If duly accepted, this will hopefully improve the dissemination of important new findings among all conference participants.

Participants should consider preparing viewgraphs, which highlight their most important results in case that their contribution is selected for oral presentation within one of the ad-hoc sessions.

BOOK OF ABSTRACTS

The book of abstracts will contain the abstracts of invited review lectures, invited progress reports and accepted poster contributions, and will be distributed to delegates upon their registration.

CONFERENCE PROCEEDINGS

Refereed proceedings of the conference will be published by Elsevier Science Publishers B.V. as a special issue (consecutively numbered) of the journal

Nuclear Instruments and Methods in Physics Research, Section B (NIM B)

and will be posted after publication to all registered regular participants of the conference. Only papers actually presented at the conference can be considered for publication. Authors of abstracts accepted for paper submission (authors will already have received a corresponding notification of acceptance) should follow the general instructions on the preparation of manuscripts for NIM B (cf. subsequent two pages).

Contributed papers must not exceed 4 journal pages and invited papers must not exceed 8 journal pages.

All manuscripts are to be submitted IN TRIPLICATE at the registration desk by 12:00 noon on Monday September 19, 1994. Papers submitted after this firm deadline will generally not be considered for inclusion in the conference proceedings, in order to ensure rapid publication. All manuscripts will undergo a regular refereeing process.

INSTRUCTIONS TO AUTHORS

GENERAL INFORMATION

CONFERENCE DATE:	September 19 - 23, 1994
CONFERENCE VENUE:	Technische Universität Wien Physics building "Freihaus", 1. & 2. floor Wiedner Hauptstr. 8, A-1040 Vienna, Austria (cf. map of conference surroundings)

REGISTRATION

Please register for HCI-94 by cutting off and returning the enclosed *late registration form* or directly at the conference registration desk. Registration forms received without remittance will not constitute a paid registration.

REGISTRATION DESK

The registration desk in the physics building of TU Wien (1040 Wien, Wiedner Hauptstr. 8) will be open on Sunday, September 18 from 15:00 to 20:00, and starting from Monday 8:00 during the conference hours.

REGISTRATION FEE

<i>Regular participant</i>	AS 3.000.-
<i>Student</i> (Certification from Supervisor required)	AS 1.500.-
<i>Accompanying person</i>	AS 1.000.-
(in AS/Austrian Schillings; 1 US\$ \approx 12 AS)	

The registration fee for regular participants includes:

- access to the scientific program
- conference documents, Book of Abstracts
- copy of the Conference Proceedings (in Nucl. Instrum. Meth. Phys. Res. B)
- social events, including a welcome reception on Sunday, September 18, 1994
- conference dinner and outing on Thursday, September 22, 1994

The registration fee for students includes:

- all of the above items, except the Conference Proceedings.
Students must apply in advance together with a letter of certification from their supervisor.

The registration fee for accompanying persons includes:

- social events, including a welcome reception on Sunday, September 18, 1994
- guidance for sightseeing, ticket reservation, etc.

- conference dinner and outing on Thursday, September 22, 1994

PAYMENT OF THE REGISTRATION FEE

Payment in advance

- * *Participants from European countries* are urged to submit with their registration form an **Eurocheque** made payable to "HCI-94 Conference" and written in AS (Austrian Schillings). Please specify "Vienna" as the place of issue of this Eurocheque and do not forget to provide your Eurocheque card number.
- * We also accept **Credit Cards** (VISA and MASTERCARD only).
- * **International Money Orders** (free of all charges to the conference organizers) must be drawn in AS (Austrian Schillings) on an Austrian bank, preferably Creditanstalt Bankverein (CA-BV, Bank code 11000).
- * A **Bank Transfer** is possible to the HCI conference account No. 0964 -31580/00 at the Creditanstalt-Bankverein, Bank code 11000, but must be hold free of all charges to the conference organizers.
- * **Participants from Germany** may alternatively transfer their registration fee in DM (please use the exchange rate 1 DM = 7.07 AS) to the GSI account Konto Nr. 500 186 5004 at Helaba Darmstadt, BLZ 508 500 49. It is mandatory that you indicate KSt 92965 (HCI 7) as a reference.

IMPORTANT: *Please bring a proof of your payment to the conference!
If your transfer has been substantially reduced through bank charges you will have to pay the difference to the appropriate conference fee upon registration.*

Payment at the conference registration desk

At the conference registration desk we will only accept payment in **cash** (in Austrian Schillings) or by **Eurocheque**.

CANCELLATIONS

Notification of cancellation must be in writing and sent to the conference mailing address.

There will be no refund of the conference fee for cancellations after August 1, 1994.

Requests for refund will be dealt with only after the conference.

BANKING FACILITIES

Basic banking facilities (money exchange) will be provided by CA-BV bank at the conference site on Monday morning. The nearby CA-BV office provides full banking facilities during the whole conference week.

CA, your experienced international banking partner!

BADGES

Admittance to the lecture hall, the poster session and all social events is strictly restricted to registered participants and registered accompanying persons wearing their name-badge. All participants and accompanying persons are therefore kindly requested to wear their name-badge during all scientific and social meetings.

TRAVEL AND INSURANCE

by air: Vienna International Airport (VIE) is served by many major airlines.

AUSTRIAN AIRLINES have been appointed **official carrier** for the conference.

Public busses (20 minutes ride, one way fare AS 60.-) leave the airport every 20 minutes for Vienna City Air Terminal at hotel Hilton where taxis and public transportation (U3, U4) are available. Public transportation within Vienna, especially the subway ("U-Bahn") system, is usually fast and reliable. Tickets can be obtained in vending-machines at subway stations. Participants arriving at Vienna City Air Terminal and heading directly for the conference venue on Sunday afternoon are advised to take U4 to Karlsplatz, which is the underground station next to the conference building.

by train: Participants arriving by train at Wien Westbahnhof railway station on Sunday afternoon should take the underground U3 to "Volkstheater" and from there U2 to "Karlsplatz".

by car: In general, driving and parking in down-town Vienna (short term, metered parking only) is not recommended. Parking is possible in a public garage located underneath the physics building of TU Wien, which can be accessed from *Operngasse* (daily fee AS 224.).

PASSPORT AND VISA

Check passport and visa requirements in due time before you leave. Please ask the nearest Austrian consulate whether you need a visa for entering Austria. Citizens of member states of the European Union and the USA do not need visas.

MEDICAL INSURANCE

Participants are strongly advised to make their own health and travel insurance.

WEATHER AND CLOTHING

Although the weather in September is usually mild (during daytime approx. 20°C / 68°F), we advise you to bring a sweater, umbrella and raincoat.

SOCIAL EVENTS

RECEPTION

On *SUNDAY, SEPTEMBER 18, 1994* a **welcome reception** for all delegates and registered accompanying persons will be hosted by the organizers at the conference venue, starting at 17:30. Drinks and light snacks will be provided.

FOOD AND REFRESHMENTS

During the break between the morning sessions **coffee** will be served free of charge in front of the lecture hall. A cafeteria, open all day, is located in the conference building. There are all categories of restaurants near the conference site (a list with map will be provided at the conference). Furthermore, the Mensa of the TU is located in the conference building and offers convenient choices for lunch at moderate prices.

OUTING AND CONFERENCE DINNER

The **conference outing** for all delegates and registered accompanying persons on *THURSDAY, SEPTEMBER 22, 1994* will comprise an afternoon excursion by bus to the famous *baroque monastery Melk* and the lovely *Danube valley Wachau*.

The **conference dinner** in an old monastery, now used as a wine college and featuring the best wines of Austria, will conclude the excursion.

OPERA, THEATER AND CONCERT TICKETS

Since Vienna is regarded as the world capital of music, we encourage you to take advantage from its rich cultural life. Upon request, Austropa - Interconvention will provide you with *opera, theater or concert tickets*. The cultural program schedule is available one month in advance, but tickets can only be confirmed 7 days before the performance. Prices vary according to category and cast and usually range from a few hundred AS to 2000.- AS plus 20% advance booking fee. Please indicate your interest in receiving the cultural program on the hotel accommodation form.

MAP OF CONFERENCE SURROUNDINGS

ACCOMMODATION

Austropa - Interconvention, Austrian National Travel Agency Corp. has been entrusted with the reservation of hotel rooms. All participants are kindly requested to make their room reservation with the enclosed *accommodation form* (deadline for hotel reservation: August 12, 1994).

The following categories are available:

<i>category</i>		<i>single room</i>	<i>double room</i>
De Luxe	*****	(please inquire)	(please inquire)
Category A	****	AS 1.190.-/1.420.-	AS 1.550.-/1.690.-
Category B	***	AS 800.-/990.-	AS 1.150.-/1.400.-
Season Hotels		AS 470.-/690.-	AS 770.-/900.-
Hostels		AS 250.-	AS 420.-

All prices are per room and night and include breakfast, services and all taxes (1 US\$ ≈ 12 AS). Category A and B rooms include private bath or shower/WC, rooms in season hotels have shower/WC or shower only, and rooms in hostels are without private bath (shared facilities only).

It is absolutely necessary that you give the exact dates of your arrival and departure as well as the hotel category desired. Upon receipt of your reservation request and hotel deposit of **AS 1.000.-** per person for categories A, B and Season Hotels or **AS 500.-** per person for hostels, respectively, you will be sent a voucher giving your hotel's name and address and confirmation of payment.

Payment should be made by check payable to Austropa Interconvention or by bank transfer to account number 0035-14775/00 at Creditanstalt-Bankverein, Vienna under the reference "Highly Charged Ions". **Booking cannot be confirmed before having received your deposit.** Please inform Austropa Interconvention immediately, should you wish to cancel or change the dates of your reservation, as participants will be invoiced for non-occupancy of reserved rooms.

Mailing address for hotel reservation:

AUSTROPA - INTERCONVENTION
P.O. Box 30
A-1043 Vienna, Austria

phone: (+43-1) 58 800-113
fax: (+43-1) 586 71 27

TOURS FOR ACCOMPANYING PERSONS

Austropa - Interconvention offers an optional program for accompanying persons. Please register for these tours on the enclosed accommodation form. Tickets are to be picked up and paid for at the Austropa desk during the conference.

Minimum number of participants for walking tours is 15, for bus tours 25.

MONDAY, September 19, 1994

CITY TOUR "HISTORIC AND MODERN VIENNA"

2:00 p.m. departure from congress venue, duration approx. 3 1/2 hours

This tour will give the participants an impression of the city and lead to some outstanding points of interest. There are many remarkable buildings located on both sides of the "Ringstraße" - a circular boulevard 4 kilometers in length and built during the middle of last century - e.g. the State Opera, the big Museums, the Parliament, the "Burgtheater", the City Hall and the University of Vienna. A strong contrast to all these buildings is the "Hundertwasser-House" in Vienna's third district and the "Kunsthaus" with a permanent exhibition of works by Friedensreich Hundertwasser, a contemporary Austrian painter.

Price per person, incl. bus, guide and entrance fees

AS 290.-

TUESDAY, September 20, 1994

VISIT TO THE IMPERIAL SHOWROOMS AT THE "WIENER HOFBURG" AND TO THE TRAINING OF THE SPANISH RIDING SCHOOL

9:00 a.m. meeting place: Josefsplatz/monument, duration approx. 3 1/2 hours

Guided tour through the Imperial Showrooms, the former imperial and private apartments of Emperor Franzis Joseph I. and his wife, with the original furniture. Afterwards visit to the morning training of the famous Spanish Riding School.

Price per person, incl. guide and entrance fees

AS 220.-

TOURS FOR ACCOMPANYING PERSONS

WEDNESDAY, September 21, 1994

VISIT TO THE MUSEUM OF FINE ARTS (Kunsthistorisches Museum)

*9:30 a.m. meeting place in front of the museum, Maria-Theresien-Platz,
duration approx. 3 hours*

The Museum of Fine Arts is one of the largest art galleries in the world and contains an important Egyptian-Oriental collection, the collections of antiques, sculptures and handicrafts. Famous paintings by Raffael, Tintoretto, Tizian as well as works by Dutch, German and Spanish painters like Rembrandt, Brueghel, Rubens, Dürer, Holbein, Velasquez are on exhibition.

Price per person, incl. guide and entrance fee

AS 190.-

WALK THROUGH "OLD VIENNA"

2:00 p.m. meeting place: Josefsplatz/monument, duration approx. 2 1/2 hours

During this walk the participants will be shown parts of "Old Vienna" which cannot be reached by bus. The guided visit through and around St. Stephens Cathedral with its numerous artistic curiosities is of special interest. In the vicinity of the cathedral is the "House of Figaro" where Wolfgang Amadeus Mozart lived when he created his opera "The Marriage of Figaro". Passing through medieval narrow streets and the "Heiligenkreuzerhof" built around 1200, one reaches the oldest church of Vienna, the "Ruprechtskirche", claimed to be founded about 740.

Price per person, incl. guide and entrance fees

AS 190.-

MESSAGES AND MAIL

Incoming mail or faxes to conference participants should be addressed to

Persons name

c/o HCI-94 Conference

Institut für Allgemeine Physik,

Technische Universität Wien,

Wiedner Hauptstr. 8/E134,

A-1040 Vienna, AUSTRIA

fax: (+43-1) 56 42 03

e-mail: HCI94@eapv38.tuwien.ac.at

In urgent cases phone messages can be left at the
conference desk (only during the conference): (+43-1) 58801 5879

TRAVEL AGENCY

AUSTROPA - INTERCONVENTION

(Österreichisches Verkehrsbüro)

P.O. Box 30

A-1043 Vienna, Austria

phone: (+43-1) 58 800-113

fax: (+43-1) 586 71 27

DEADLINES

Reservation for accomodation Aug. 12, 1994

Submission of manuscripts for the proceedings Sep. 19, 1994

OTHER DATES

Book of Abstracts upon registration at the conference

Conference Proceedings in NIM B June 1995

LATE REGISTRATION FORM

7th INT. CONFERENCE ON THE PHYSICS OF HIGHLY CHARGED IONS (HCI-94)

Vienna, Austria

September 19 - 23, 1994

Please return as soon as possible to:

Friedrich Aumayr, HCI-94
Institut für Allgemeine Physik, TU Wien,
Wiedner Hauptstr. 8/E134, A-1040 Vienna, Austria

Please type or use capitals !

All prices are in Austrian Schillings AS

PARTICIPANT

Last Name	First Name	Title(s)
Institution		
Street/P.O. Box		
ZIP-Code	City	Country
Phone	FAX	e-mail

ACCOMPANYING PERSONS

Last Name(s)/First Name(s)
Last Name(s)/First Name(s)

REGISTRATION FEE

Participant

AS 3.000.-

Full Time Student*

AS 1.500.-

Accompanying person

AS 1.000.-

(*certificate required)

TOTAL AMOUNT DUE

FORM OF PAYMENT

- Payment in cash** (or Eurocheque) in Austrian Schillings upon registration at the conference.
- Eurocheque** in Austrian Schillings enclosed (place of issue: "Vienna"; Eurocheque card number on back!).
- Creditcard:**
- MASTERCARD Card Number:
- VISA Exp. Date:
- Amount:
- Signature:
- International Money Order** (free of all charges to the conference organizers) in Austrian Schillings drawn on an Austrian bank (preferable CREDITANSTALT-Bankverein) enclosed.
- Bank Transfer** (free of all charges to the conference organizers) to the bank account no. 0964-31580/00 (HCI-94) at CREDITANSTALT-Bankverein, Bank code: 11000 .
- Bank Transfer** (for German participants) in DM (exchange rate 7.07 AS = 1 DM) to the GSI account no. 500 186 5004 at Helaba Darmstadt, Bank code 508 500 49 (please do not forget to indicate KSt 92965 - HCI 7 as a reference!)

We kindly ask you to authorize us by your signature to use all registration data given in this form for a computerized data handling of the congress.

ACCOMMODATION FORM

