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Events



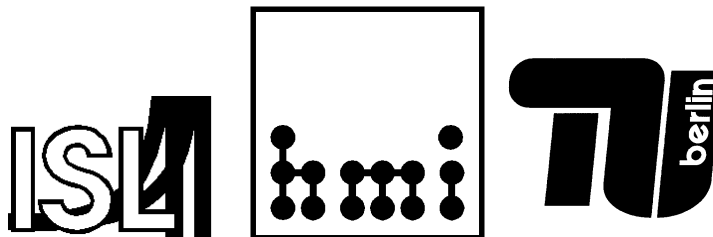
ICACS 2006



International Conference on Atomic
Collisions in Solids

ICACS 2006 is the 22nd meeting within the international ICACS conference series, which deals with fundamental aspects of physical and chemical phenomena induced by the interaction of low and high energy beams of charged or neutral particles with matter.

ICACS 2006 will be held in the main building of the [Technical University](#) (TU Berlin, Strasse des 17. Juni 135, 10623 Berlin), in the center of Berlin (Germany), during the period from the 21st to the 26th of July 2006 (after the soccer world-championship).



Changed: 22.05.2006
Responsible: Dr. Gregor Schiwietz



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ICACS 2006 - Scope



International Conference on Atomic
Collisions in Solids

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About ICACS

ICACS is a biannual meeting, which deals with physical and chemical phenomena induced by the interaction of low and high energy beams (hyperthermal up to relativistic velocities) of charged or dressed neutral particles (singly up to highly charged ions, atoms and clusters, but also photons, electrons, positrons, muons, antiprotons, ...) with the surface and the bulk of solids and liquids. The most recent meetings have been held in [Genova \(Italy, 2004\)](#), Puri (India, 2003), Paris (France, 2001), Odense (Denmark, 1999) and Beijing (China, 1997).

The objectives of ICACS-22 are to assess the state of the art in the current understanding of a variety of basic phenomena such as

- charge-exchange processes
- collective as well as single-particle excitation and ionization
- energy loss, scattering and channeling of primary particles
- electron and photon emission processes
- sputtering, desorption
- collision induced physical, chemical and biological reactions
- radiation damage, materials modification

While the emphasis of the conference is on fundamental processes (experiment, theory and computer simulation), challenging scientific and technological applications in physics, chemistry, biology and medicine will be considered as well and new developments in experimental techniques may be presented.

Pertinent materials are pristine or adsorbate covered metals, semiconductors and insulators. Liquids and complex materials such as polymers and biomaterials are also subject of the conference. Macro to nano-structures of these materials will be considered as well. Gas targets may only be of interest, when general interaction processes are considered that are important for ion-solid interactions.

The program will consist of invited talks, oral and poster presentations.

Sufficient time for informal discussions will be allocated.

Tutorial Lectures

A series of tutorial lectures will be given on Friday, 21st of July. These will be open to all registered participants, although they will be mainly aimed at students and postdocs. Their objective is to present overviews covering certain areas of ICACS on a non-specialized level.

An incomplete and partially overlapping list of ICACS Program Topics is given below:

1. Scattering, stopping and related processes

- Stopping and straggling of light and heavy ions
- Inelastic ion collisions, charge transfer and projectile/target excitation. Bulk plasmon excitation
- Neutralization of ions in the bulk.
- Impact-parameter-dependent energy loss
- Inner-shell processes
- Channeling and blocking of ions; charge exchange and energy loss of channeled ions.
- Channeling and channeled energy loss of electrons and positrons
- Crystal-assisted processes
- Relativistic effects and channeling radiation
- Higher-order Z¹ effects in stopping
- Stopping of molecules and clusters
- Ion induced chemical effects
- Related processes in hot plasmas
- Shock-wave production

2. Materials processes in the bulk

- Fundamental processes in radiation damage of conducting and insulating materials
- Manifestation of thermal spikes, shock waves, pressure spikes and related concepts
- Effects of highly ionizing projectiles (e.g. clusters, highly charged ions)
- Basic aspects of track formation and manifestation
- Ion-induced growth of precipitates
- Cluster formation in glasses
- Elementary processes in biomaterials. Primary and secondary effects.
- Structural changes and disordering
- Bulk segregation phenomena
- Ion-beam mixing
- Effects of implanted gasses and blistering
- Computer simulation
- High-density recoil cascades

3. Surface processes

- Resonant and Auger electron-transfer processes. Surface-plasmon excitation
- Local effects in electron transfer involving dielectrics

- Electron transfer involving biomolecules
- Effect of adsorbates in electron transfer and reactions.
- Neutralization and formation of negative ions. Highly charged ion neutralization.
- Metastable atom scattering
- Electronic effects in atom/ion desorption induced by ions, electrons or photons
- Scattering of molecules on surfaces
- Cluster-surface interactions
- Highly charged ions and hollow atoms
- Scattering and stopping at the first monolayer. Monolayer resolution in ISS and MEIS techniques
- Effect of chemical environment in ISS and SIMS
- Surface damage
- Ion-induced surface segregation

4. Emission phenomena

- Secondary (delta-) electron emission
- Auger electrons
- Convoy electrons
- Potential and kinetic electron emission
- Forward and backward electron emission from foils
- Photon emission from bulk (luminescence) as well as by scattered and sputtered particles
- Ion/atom induced desorption at all energies. Electronic sputtering and related laser-induced processes
- Basic studies of collisional sputtering
- Ion emission and fundamental aspects of SIMS
- Emission of clusters and molecules
- Sputtering and desorption of biomolecules
- Sputtering and desorption by highly charged ions
- Cluster-induced emission phenomena
- Alloy and isotope sputtering

5. Applications of ion beams

- Low-energy ion implantation, including molecular beams, soft landing and channeling implantation
- High-energy (deep) ion implantation
- Nanocrystal formation via implantation
- Cluster implantation and cluster-beam deposition
- Influence of solid-state effects on nuclear processes
- Fundamental problems in beam machining, nanoscale ion milling and ion-beam lithography
- Plasma processing
- Beam-assisted deposition and modification of materials
- Radiation-cocktail effects
- Consequences of biological material irradiation
- Ion beams in cancer treatment

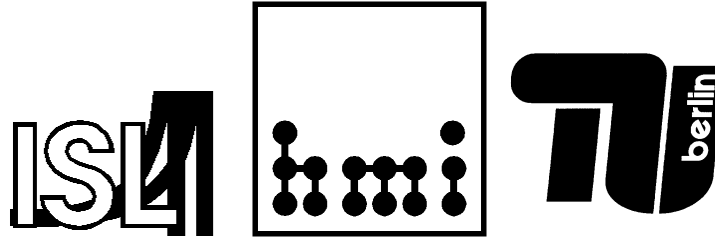
6. New developments in instrumentation and techniques

- Improved ion-beam analysis of surfaces and bulk
- Multiparametric detection and imaging.
- Coincidence experiments

- Magnetic, electrostatic and time-of-flight energy analyzers for charged particles
- Surface-analysis techniques

Related Conferences and Workshops

[26th Brandt Ritchie Workshop](#) on Particle-Penetration Phenomena and Excitations of Solids - Paris, July 16-19, 2006



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Responsible: [Dr. Gregor Schiwietz](#)



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ICACS 2006 - Invited Speakers



International Conference on Atomic
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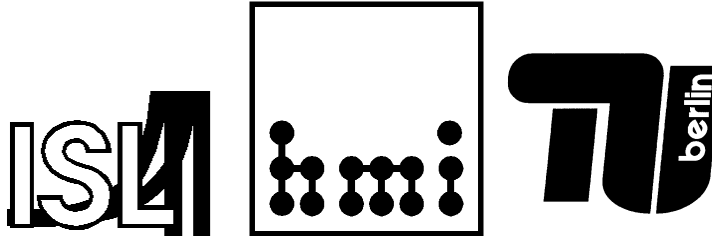
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The invited talks at ICACS 2006 cover invited progress reports (I), tutorial lectures (T) as well as the Lindhard lecture (L) and a special lecture (SL).

Speaker	Institution	Topic
P. Sigmund	University of Southern Denmark	Energy loss and straggling of ions in solids (L)
-----	-----	-----
D. Dauvergne	Institut de Physique Nucléaire de Lyon	Ion channeling (T)
P.M. Echenique	Donostia International Physics Center	Dynamic screening and energy loss of ions and electrons in an electron gas (T)
L.C. Feldman	Vanderbilt University	Ion-beam applications to nanoscale solids (T)
H.M. Urbassek	Universität Kaiserslautern	Molecular-dynamics simulation of sputtering (T)
-----	-----	-----
M. Alducin	E.T.S.I.I	Spin-dependent electron excitation and emission in the neutralization of He ⁺ ions at paramagnetic surfaces (I)
W. Arnoldbik	Debye Institute Utrecht University	Electronic sputtering and molecular loss from thin films (I)
E. Bringa	Lawrence Livermore National Laboratory	Large-scale atomistic simulations of ion tracks (I)

A.R. Canario	Universidade Nova de Lisboa	Ag and Au cluster-size effects studied by Li ⁺ neutralization (I)
E. Chason	Brown University	Understanding the spontaneous formation of ripples during ion sputtering: experiments and simulations (I)
G. Dollinger	Universität der Bundeswehr München	Micro irradiation of cells with energetic heavy ions (I)
P. Esquinazi	Universität Leipzig	Proton-induced magnetic ordering in carbon structures (I)
J.-P. Gauyacq	Universite Paris-Sud	Charge transfer in atom-surface interactions (I)
L. Glazov	Institute of High Current Electronics	Energy-loss spectra of light relativistic ions (I)
H.V. Knudsen	University of Aarhus	Antiproton collisions with atoms and solids (I)
C. Lemell	TU Vienna	Simulation of heavy-ion guiding in insulators (I)
J. Matsuo	Kyoto University	Prospects of low energy cluster beams (I)
Z.L. Miskovic	University of Waterloo	Dynamics of fast molecular ions in solids and plasmas
R. Moroni	INFM	Ion-induced nanoscale structures: a tool for tuning magnetic anisotropy in ultrathin films (I)
E. Schubert	IOM	Sculptured Thin Films: Design and Applications (I)
M. Toulemonde	CIRIL	Materials modifications in ion tracks (I)
HP. Winter	Technische Universität Wien	New mechanisms in kinetic electron emission during grazing-angle interactions (I)
H. Winter	Humboldt-Universität zu Berlin	Ion-beam probing of surface magnetization (I)
D.P. Woodruff	University of Warwick	MEIS investigations of surface structure (I)

Y.Yamazaki	University of Tokyo	Nanobeam of slow highly charged ions: self-organizing interaction of slow HCIs with insulator (I)
-----	-----	-----
G. Gabrielse	Harvard University	Towards high-resolution spectroscopy of antimatter (SL)



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 Responsible: Dr. Gregor Schiwietz



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ICACS 2006 - Conference fee



International Conference on Atomic Collisions in Solids

Conference Fees

- Participant (Senior Scientist): 390 Euros
- Participant (Student): 190 Euros
- Accompanying person: 120 Euros
- Additional fee for late registration: +50 Euros

Notes

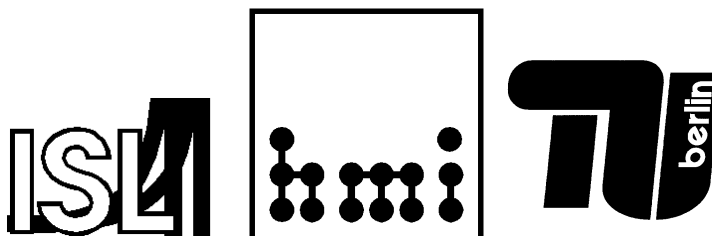
a) Note that, although it will be possible to pay cash at the conference desk (late registration), we warmly recommend paying in advance through bank transfer or credit-card transaction.

b) The fees for participants (which include all taxes) cover the book of abstract, conference dinner, and coffee breaks during the conference and for regular participants also the proceedings book.

c) Students should be qualified by adequate certification or by formal declaration of their supervisor. The student fees do not include the volume of the proceedings. The proceedings, published in a special issue of NIM B can of course be ordered separately.

d) Official accompanying persons may participate in all conference activities.

e) In case of cancellation, fees will be refunded. A forfeit of 100 Euros will be retained by organization to cover expenses if cancellation occurs after May 31th 2006.



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Responsible: [Dr. Gregor Schiwietz](#)



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ICACS 2006 - Deadlines

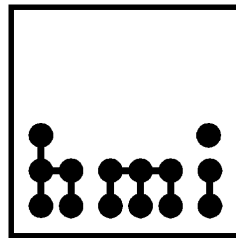


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Time Schedule and Deadlines

- mid of January 2006: 2. Circular and call for abstracts
- 15th of February 2006: abstract-submission deadline
- 24th of March 2006: abstract-acceptance notification
- 15th of April 2006: registration deadline (afterwards there is an additional late-registration fee)
- May/June 2006: electronic delivery of final program
- 22nd of July 2006: paper-submission deadline
- 21st to the 26th of July 2006 : ICACS conference period



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Responsible: [Dr. Gregor Schiwietz](#)



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ICACS 2006 - Hotel



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Room reservations should be made by the conference participants themselves. Contingents with special room rates for ICACS 2006 participants have been reserved in various hotels, which are located within walking distance to the conference site and Kurfürstendamm (see list below). Details about the hotels and the rooms are available on the corresponding web-sites. If not otherwise stated (see footnotes) the prices for the rooms are per night and include breakfast and taxes. Some hotels offer their rooms also without breakfast. In this case room rates reduce by 10.- to 15.- €. During reservation it is necessary to refer to the code word "ICACS2006" to get the special room rates. To avoid problems with the code word it is recommended to make reservations either by fax or email. Reservations via the web sites of the hotels is recommended only, if there is a possibility to mention the code word. Some of the hotels are smaller ones; all rooms are available on a "first come first served" basis. All hotels except Hotel Dittberner accept credit cards. Please, note the deadlines when the special room rates are no longer available.

In case you prefer to search for additional hotels in Berlin, please contact:
<http://www.berlin.citysam.de/guenstige-hotels-berlin.htm>.

Hotel Gates

Knesebeckstr. 8-9

10623 Berlin

www.hotel-gates.com

Appr. distance to conference site: 0.6 km

Category: ****

Single room: 90.- €

Double room: 110.- €

Deadline for booking: 07. June 2006

Contact:

Fon: +49 30 311 06 0

Fax: +49 30 312 20 60

Email: info@hotel-gates.com

Dorint Novotel

Str. des 17. Juni 106-108
10623 Berlin
www.novotel.com
Appr. distance to conference site: 0.6 km
Category: ****
Single room: 83.- €
Double room: 115.- €
Deadline for booking: 21. June 2006
Contact:
Fon: +49 30 600 35 0
Fax: +49 30 600 35 666
Email: H3649-RE@accor.com

Hotel Heidelberg Berlin
Knesebeckstr. 15
10623 Berlin
www.hotelheidelberg.de
Appr. distance to conference site: 0.7 km
Category: ***
Single room: 59.- €
Double room: 79.- €
Deadline for booking: 07. June 2006
Contact:
Fon: +49 30 313 01 03
Fax: +49 30 313 58 70
Email: hotel.heidelberg.berlin@t-online.de

Concept Hotel
Grolmanstr. 41-43
10623 Berlin
www.concept-hotel.com
Appr. distance to conference site: 1.2 km
Category: ***
Single room: 60.- €
Double room: 80.- €
Deadline for booking: 02. June 2006
Contact:
Fon: +49 30 884 26 0
Fax: +49 30 884 26 500
Email: info@concept-hotel.com

Berlin Plaza Hotel
Knesebeckstr. 63
10719 Berlin
www.plazahotel.de
Appr. distance to conference site: 1.5 km
Category: ***
Single room: 70.- € #
Double room: 105.-€ #
Price holds for a minimum stay of three nights!
Deadline for booking: 20. June 2006
Contact:

Fon: +49 30 884 13 444
Fax: +49 30 884 13 754
Email: reservierung@plazahotel.com

Best Western Hotel Boulevard
Kurfürstendamm 12
and
Hotel Frühling am Zoo
Kurfürstendamm 17
10719 Berlin
www.ahc-hotels.com

Appr. distance to conference site: 1.5 km

Category: ***

Single room: 71.- to 75.- €

Double room: 81.- to 85.- €

Deadline for booking: 22. June 2006

Contact:

Fon: +49 30 884 25 0

Fax: +49 30 884 25 450

Email: info@hotel-boulevard.com

Hotel Pension Dittberner
Wielandstr. 26
10707 Berlin
www.hotel-dittberner.de

Appr. distance to conference site: 1.5 km

Category: ***

Single room: 66.50 € to 87.- € ##

Double room: 92.- to 118.- € ##

No credit cards accepted except EC card. Stay five nights pay four!

Deadline for booking: 07. June 2006

Contact:

Fon: +49 30 884 69 50

Fax: +49 30 885 40 46

Email: info@hotel-dittberner.de

Hotel Bogota
Schlüterstr. 45
10707 Berlin
www.bogota.de

Appr. distance to conference site: 1.5 km

Category: ***

Single room: 65.- €

Double room: 85.- €

Category: **

Single room: 40.- €

Double room: 62.- €

Deadline for booking: 21. May 2006

Contact:

Fon: +49 30 881 50 01

Fax: +49 30 883 58 87

Email: hotel.bogota@t-online.de

A&O Hostel am Zoo

Joachimstaler Str. 1-3

10623 Berlin

www.aohostels.com/en/berlin-zoo/

Appr. distance to conference site: 1.2 km

Single room: 60.- €

4 bed room 92.- €

Deadline for booking: 26. May 2006

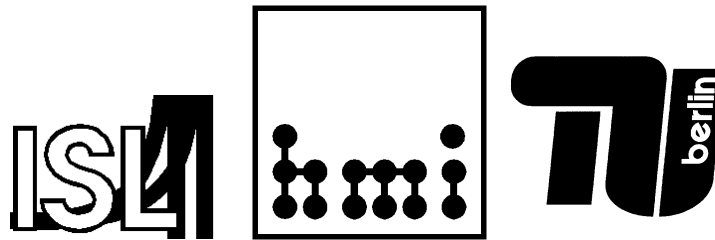
Contact:

Fon: +49 30 809 47 14

0800 222 57 22 (call free)

Fax: +49 30 809 47 20

Email: hostel@web.de



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Responsible: Dr. Gregor Schiwietz



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ICACS 2006 - Travel Information



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Visa

Participants from countries other than the European Union, Switzerland, USA and Canada are advised to inquire as soon as possible at the nearest [German Consulate or Embassy](#), whether a visa is required for their stay in Germany. To find out if you need a visa or not you can also consult [this site](#)

Please apply early enough for a visa and please inform the conference secretariat (after your personal ICACS registration) if you experience any difficulty in obtaining a visa to come to Germany for participation in ICACS22

Letter of invitation

An official letter of invitation (without financial commitment) can help in overcoming administrative difficulties in some countries. Please send a request to the conference secretariat (after your personal ICACS registration) if you should need such an invitation.

Insurance

The ICACS organizers are not responsible for medical, travel and luggage insurance of the conference participants. Attendants are strongly advised to check that they have their own personal insurance before departure.

Air travel

Berlin may be reached by plane via its three airports Berlin-Tegel, Berlin-Tempelhof, and Berlin-Schönefeld. These airports are connected to the [public-transport system](#) of the town.

Train travel

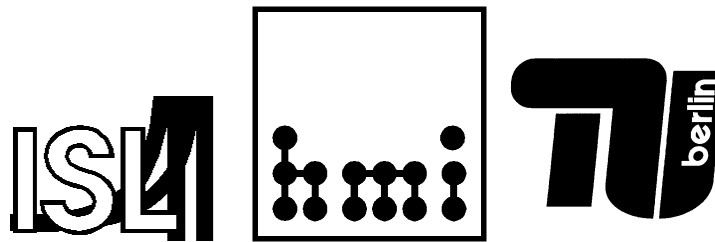
The conference will take place at the [Technical University](#) (TU Berlin, Strasse des 17. Juni 135, 10623 Berlin) close to the major train station "[Bahnhof Zoologischer Garten](#)".

The City

Berlin is the capital and one of the 16 federal states of Germany. Information on Berlin may be found on [this site](#). Here are just a few numbers some of you might be interested in:

- Berlin dates back by about 720 years (there are some churches still left from the 13th century)
- there are several forests, parks, gardens and more than 400000 trees on the streets: a green city
- there are 1100 bridges (twice as much as in Venice) and 200 km water ways on rivers (Spree, Havel and 3 small rivers) and many channels inside the town
- weather:

typically you may expect temperatures between 17 and 23 deg. Celsius (on a hot summer day 30 deg. C may be exceeded), a relative humidity of 71 %, 7 sunny hours per day and a 30% rain probability per day (no guarantee for all that).



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Responsible: Dr. Gregor Schiwietz



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ICACS 2006 - Program

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Preliminary ICACS schedule

Friday, 21 July 2006

	Chair: N.R. Arista	Room H1058
14:00	Schiwietz, Klaumünzer, Mahnke	Opening of Tutorial
14:10	Prof. Pedro Miguel Echenique	Dynamic screening and energy loss of ions and electrons in an electron gas (T1)
15:00	Dr. Denis Dauvergne	Ion channeling (T2)
15:50	Chair: A. Titov	COFFEE BREAK
16:20	Prof. Herbert M. Urbassek	Molecular-dynamics simulation of sputtering (T3)
17:10	Prof. Leonard C. Feldman	Ion-beam applications to nanoscale solids (T4)
		Center Hall
18:30		Welcome Reception

Saturday, 22 July 2006

	Chair: M. Canepa	Room H1058
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09:00	Schiwietz, Klaumünzer, Mahnke	Welcome
09:15	P. Sigmund	Energy loss and straggling of ions in solids (I1, Lindhard Lecture)
10:15	W. Arnoldbik	Electronic sputtering and molecular loss from thin films (I2)
10:50	Chair: M. Dunlop	COFFEE BREAK
11:20	E. Bringa	Large-scale atomistic simulations of ion tracks (I3)
11:55	E. Friedland	Damage efficiency and electronic stopping in semiconductors (O1)
12:15	C.H. Zhang	Damage accumulation in gallium nitride irradiated with various energetic heavy ions (O2)
12:35	LUNCH BREAK	
14:30	Chair: R. Pedrys	COFFEE BREAK
15:00	H. Winter	Probing surface magnetism with ion-beams (I4)
15:35	J. Scheer	Low energy ion scattering and space science – from the very small to the very big (O3)
15:55	A. Titov	The molecular effect in Si bombarded by cluster ions (O4)
16:15	A. Blazevic	Heavy ion stopping process and associated K-shell radiation (O5)
16:35	Chair: A. Dubus	COFFEE BREAK
17:05	C. Lemell	Simulation of heavy-ion guiding in insulators (I5)
17:40	M. Roth	Angular distributions of Auger electrons: New insights into the ion-track dynamics? (O6)

18:00	A. El-Said	Scanning force microscopy of tracks created by fast C60 cluster ions in different fluoride crystals (O7)
18:20	J. Pomeroy	Transport and STM measurements of highly charged ion modified materials (O8)
18:40	SET UP POSTERS FOR POSTER SESSION A	

Sunday, 23 July 2006

	Chair: J.M. Pitarke	Room H1058
09:00	L. Glazov	Energy-loss spectra of light relativistic ions (I6)
09:35	J-P. Gauyacq	Charge transfer in atom-surface interactions (I7)
10:10	N.R. Arista	Semiclassical theory of electronic stopping (O9)
10:30	M. Kato	Elastic and inelastic collision of low energy proton scattering from rare gas solids (O10)
	Chair: G. Ross	Room H1028
09:00	A. Hauptner	Micro irradiation of cells with energetic heavy ions (I8)
09:35	J. Matsuo	Prospects of low energy cluster beams (I9)
10:10	R. Garcia-Molina	Improved descriptions of the energy loss functions of water and DNA (O11)
10:30	M. Canepa	He* interaction with soft-matter surfaces: ultra thin L-Cysteine films (O12)
10:50	COFFEE BREAK	
	Chair: A.H. Sørensen	Room H1058
11:20	Ch. Toepffer	Transition from heating to cooling of channeled ion beams (O13)
11:40	T. Azuma	Autler-Townes doublet observed through doubly resonant coherent excitation (O14)

12:00	M. Vysotsky	The features of charged-particle channeling in crystals at the presence of coherency effects (O15)
12:20	C. Ray	Enhanced energy loss of decelerated, highly charged ions in channeling conditions (O16)
	Chair: Y. Jin	Room H1028
11:20	V. Skalyga	High current ECR source of multicharged ion beams (O17)
11:40	G. Ross	Relation between the depth distributions of Si implanted into an SiO ₂ layer and the Si nanocrystals produced (O18)
12:00	M. Tona	Nano-fabrication on Si surface by slow highly charged ion impact (O19)
12:20	A. Pathak	MC study of electron penetration and energy deposition at the sub-cellular level for application to targeted radionuclide therapy (O20)
12:40	LUNCH BREAK	
	Center Hall	
15:00	POSTER SESSION A (INCL. COFFEE)	
	Chair: A.P. Pathak	H1058
17:30	A.R. Canario	Ag and Au cluster-size effects studied by Li ⁺ neutralization (I10)
18:05	M. Toulemonde	Ion track in CaF ₂ crystal: evidence for two damage thresholds (I11)
18:40	REMOVE ALL POSTERS	
	INTERNATIONAL COMMITTEE MEETING	

Monday, 24 July 2006

	Chair: R. Hoeckstra	Room H1058
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09:00	P. Esquinazi	Proton-induced magnetic ordering in carbon structures (I12)
09:35	R. Moroni	Ion-induced nanoscale structures: a tool for tuning magnetic anisotropy in ultrathin films (I13)
10:10	A. Iwase	Study on irradiation-induced magnetic transition in FeRh alloys by means of Fe K-edge XMCD spectroscopy (O21)
10:30	M. Barabanenkov	Proton and temperature-induced competitive segregation of iron on surface and volume sinks of silica (O22)
10:50	Chair: K. Kimura	COFFEE BREAK
11:20	M. Alducin	Spin-dependent electron excitation and emission in the neutralization of He ⁺ ions at paramagnetic surfaces (I14)
11:55	A. Robin	Surface spin polarization investigated by slow ions (O23)
12:15	Y. Kido	Charge states of medium energy He ions scattered from single and poly crystals surfaces (O24)
12:35	E. Sideras-Haddad	Diamond-surface nanostructures induced by slow highly charged ions (O25)
12:55	M. Rudolphi	Surface structuring of Si-C-N thin films prepared by ion implantation and electron beam annealing (O26)
	SET UP POSTERS FOR POSTER SESSION B	
13:15	LUNCH BREAK	
	SET UP POSTERS FOR POSTER SESSION B	
16:00	BUS-TRANSFER, OUTING AND BANQUET	
22:00		

Tuesday, 25 July 2006

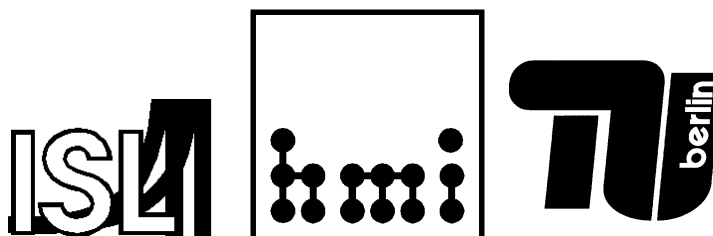
09:00	Conference photo	
	Chair: F. Aumayr	Room H1058
09:20	Y. Yamazaki	Nanobeam of slow highly charged ions: self-organizing interaction of slow HCl ⁺ with insulator (I15)
09:55	D.P. Woodruff	MEIS investigations of surface structure (I16)
10:30	M. Kumar	Influence of grain size on electronic sputtering of LiF thin films (O27)
10:50	A. Sindona	Anomalous behavior of the low velocity distributions of the secondary ions of silver and gold sputtered from their elemental surfaces (O28)
11:10	Chair: E.F. da Silveira	COFFEE BREAK
11:40	N.R. Matsunami	Electronic sputtering of nitrides by high-energy ions (O29)
12:00	G. Rizza	Metallic nanoparticle amorphization by high electronic energy deposition during heavy clusters slowing down (O30)
12:20	P. Gaiduk	Discontinuous tracks in epitaxial Si _{1-x} Gex alloy layers (O31)
12:40	D. Dumitriu	Projectile equilibrium charge-states in 0.2-1.5 MeV/u Ti+Au, Bi and Fe, Co, Cu+Cr collisions (O32)
13:00	LUNCH BREAK	
	Center Hall	
15:00	POSTER SESSION B (INCL. COFFEE)	
	Chair: H. Winter	Room H1058
17:30	Z.L. Miskovic	Dynamics of fast molecular ions in solids and plasmas (I17)

18:05	E. Schubert	Sculptured thin films: design and applications (I18)
18:40	G. Gabrielse	Towards high-resolution spectroscopy of antimatter (I19)
		REMOVE ALL POSTERS

Wednesday, 26 July 2006

	Chair: V. Esaulov	Room H1058
09:00	HP. Winter	New mechanisms in kinetic electron emission during grazing-angle scattering from metal surfaces (I20)
09:35	H. Knudsen	Antiproton collisions with atoms and solids (I21)
10:10	P. Riccardi	The role of atomic collisions in kinetic electron emission from Al surfaces by slow Na ⁺ ions (O33)
10:30	R.C. Monreal	Role of d-electrons in Auger neutralization of He ⁺ at Ag/111) and (110) surfaces (O34)
10:50	Chair: J. Malherbe	COFFEE BREAK
11:20	E. Chason	Understanding the spontaneous formation of ripples during ion sputtering: experiments and simulations (I22)
11:55	A. Keller	Off-normal ion erosion of silicon – simultaneous observation of two ripple modes (O35)
12:15		Concluding Remarks
12:35		END OF CONFERENCE

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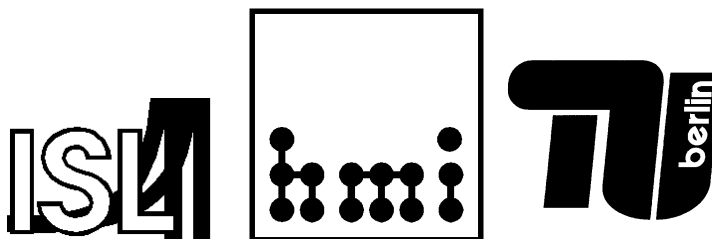
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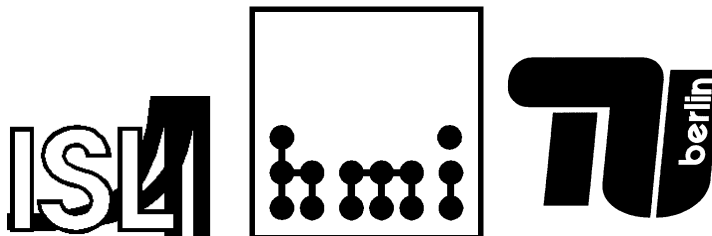
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