

THE GAS

46th

Conference of the
European Group on
Atomic Systems



Université
Lille1
Sciences et Technologies



LILLE - FRANCE

July 1-4, 2014

CONFERENCE BOOKLET

Volume Editors

Daniel Hennequin (Chairman)

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Jean Claude Garreau

Andre Severo Pereira Gomes

Florent Réal

Valérie Vallet

Philippe Verkerk

Véronique Zehnlé

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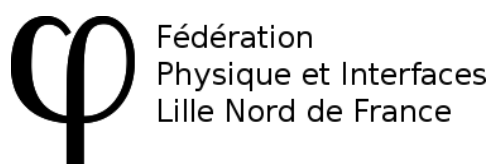
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Physique



Exhibitors



CONFERENCE BOOKLET

ITTEGAS

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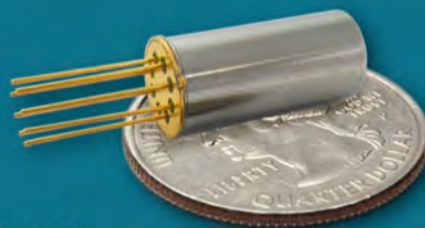


ARE YOU WEARING THE
SAME PAIR OF SHOES FOR
ANY SITUATION?

Specific types of cavity concepts for the best results:



Littman S5
QD-Spectroscopy and more ...



Micron S1
Advanced Airbone Applications



Littrow S3
Cooling & Trapping

Tuesday, July 1

Wednesday, July 2

08:30	Opening		08:30	
08:45	Plenary session PL1 MACC's	Wim Ubachs	Plenary session PL3 MACC's	
09:00				Gerry O'Sullivan
09:15				
09:30		Wim van der Zande		Elisabeth Giacobino
09:45				
10:00				
10:15	Coffee break		10:15	
10:30	<i>IUT A</i>		10:30	
10:45			10:45	
11:00	Session PA1A <i>IUTA-1A14</i>	Session PA1B <i>IUTA-1A04</i>	Session PA2A <i>IUTA-1A14</i>	
11:15	Giuseppe Sansone	Matthias Weidemüller	Giovanna Morigi	
11:30	Gabriel Karras	Steven Knoop	Sonja Franke-Arnold	
11:45	Sandrine Galtier	Marion Jacquy	Reinhard Dörner	
12:00	Diego Guenot	Francesco Cataliotti	Pedro Gomes	
12:15	André Knie	Sylvain Ravets	David Wilkowski	
12:30	Athanasios Laliotis	Naeimeh Behbood	Krzysztof Sacha	
12:45			Florian Köhler	
13:00	Lunch		Olivier Gorceix	
13:15	<i>Barrois restaurant</i>		Yvan Sortais	
13:30				
13:45				
14:00				
14:15				
14:30	Plenary session PL2	David Wineland	Excursion Le Louvre Lens	
14:45	MACC's			
15:00				
15:15		Serge Haroche		
15:30				
15:45				
16:00	Group photo			
16:15	Coffee break & posters			
16:30	<i>IUT A</i>			
16:45				
17:00				
17:15				
17:30				
17:45				
18:00	Reception at city hall		18:00	

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Thursday, July 3

Friday, July 4

08:30

08:45	Plenary session PL4 <i>MACC's</i>	Gerhard Rempe
09:00		
09:15		
09:30		Nirit Dudovich

09:30	Mini-symposium <i>MACC's</i>	Jean Dalibard	09:30
09:45			09:45
10:00			10:00
10:15		Francesc Malet Giralt	10:15

10:15	Coffee break	
10:30	<i>IUT A</i>	

10:45	Coffee break		10:45
11:00	<i>MACC's</i>		11:00

11:00	Session PA3A <i>IUTA-1A14</i>	Session PA3B <i>IUTA-1A04</i>
11:15	Mika Sillanpää	David B. Cassidy
11:30	Christophe Blondel	Fiodor Sorrentino
11:45	Chintan Shah	Christian Bordas
12:00	Matthieu Génévriez	Philipp Geyer
12:15	Thomas Wall	Katrin Dulitz
12:30	Martino Trassinelli	Remi Geiger

11:30	Mini-symposium <i>MACC's</i>	Timo Fleig	11:30
11:45			11:45
12:00			12:00
12:15		Andre Wenz	12:15
12:30			12:30

12:45	Lunch	
13:00	<i>Barrois restaurant</i>	
13:15		
13:30		
13:45		
14:00		
14:15		

12:45	Lunch		12:45
13:00	<i>Barrois restaurant</i>		13:00
13:15			13:15
13:30			13:30
13:45			13:45
14:00			14:00

14:30	Session PA4A <i>IUTA-1A14</i>	Session PA4B <i>IUTA-1A04</i>
14:45	Rosario Gonzalez-Ferez	Michael Drewsen
15:00	Servaas Kokkelmans	Jofre Pedregosa
15:15	Johannes Postler	Steinar Wouters
15:30	Piotr Wcislo	Elena Jordan
15:45	Sreekanth Mathavan	Oleg Yu. Andreev

16:00	Coffee break & posters	
16:15	<i>IUT A</i>	
16:30		
16:45		
17:00		
17:15		
17:30		
17:45		
18:00		

20:00	Conference dinner	
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LOCAL ORGANIZING COMMITTEE

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EGAS BOARD MEMBERS

EGAS stands for European Group on Atomic Systems, formerly known as European Group on Atomic Spectroscopy (name changed in 2004). EGAS is a section of the AMOPD (Atomic, Molecular and Optical Physics Division) of the EPS (European Physical Society). The board consists of the following 14 members.

Check the EGAS website for more information: <http://www.eps-egas.org>



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PRACTICAL INFORMATION

EGAS 46 will be held on the campus of Lille 1 university (université Lille 1), in the city of Villeneuve d'Ascq, in the surroundings of Lille.

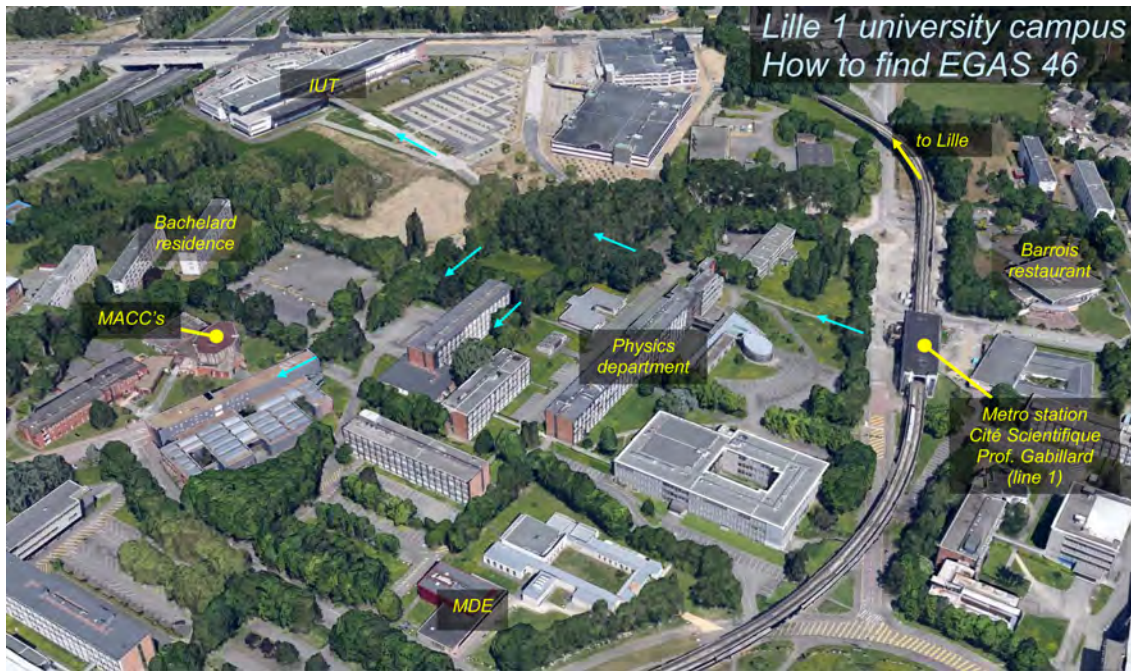
Organization of the sessions

MACC's conference center	IUTA (see IUTA map)
Welcome reception	Parallel sessions (PA#A in 1A14 & PA#B in 1A04)
Plenary sessions	Poster sessions (Salle des DS)
Mini Symposium	Coffee Break (Hall)

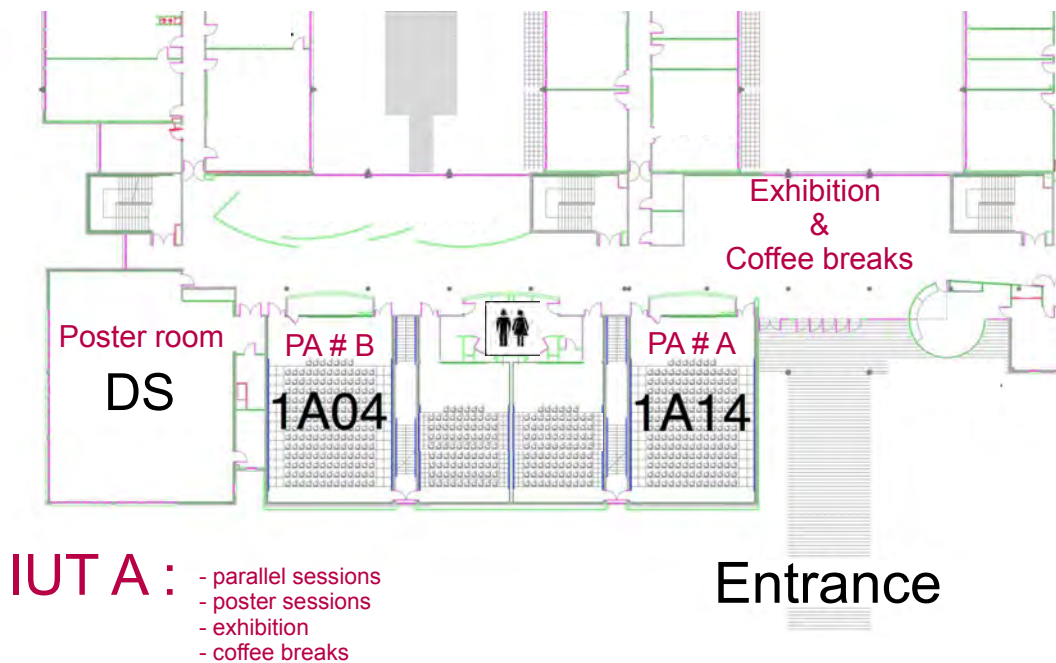
Coffee breaks and sponsor exhibitions will take place in the **IUTA hall**.

Lunch will be served at the **Restaurant Barrois**.

Sites for the EGAS46 conference



Map of the IUTA building



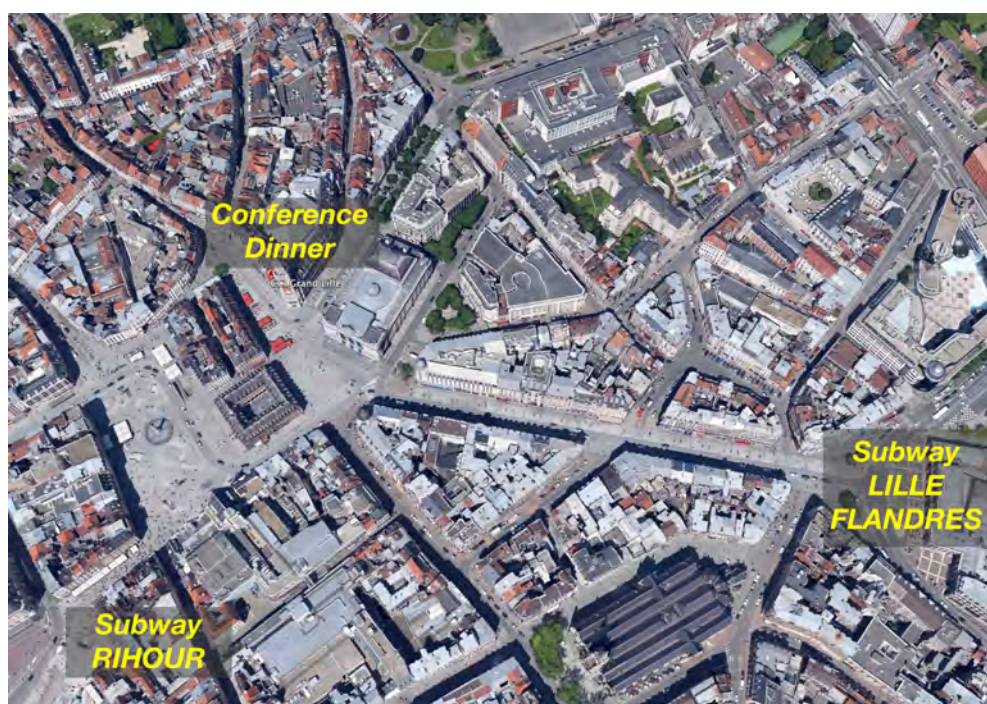
Social Program

June 30, 18.00–20:30: **Registration & Welcome Reception** at the MACC's conference center

July 2, 14:30: **Visit of the Museum Le Louvre Lens** www.louvreens.fr
Departure at 14:30 from the MACC's conference center

Lens is the site of the new extension of the Louvre museum called "Louvre-Lens". If you're an art lover, you can not miss this opportunity to visit this former coal mining town and have a look at the sleek steel and glass museum. Measuring 3,000 m², the Galerie du Temps is the museum's principle exhibition space. It invites the visitor to take a journey into the heart of the civilisations, from the Neolithic period up to the 19th century. 250 works from the collections of the Louvre museum are brought together here, side by side for the first time without a division between the different civilisations. In addition to this, a gallery for temporary exhibitions, with a surface area of 1,800 m², hosts two major exhibitions per year.

July 3, 19:30: **Conference dinner in Lille downtown at the Chamber of Commerce and Industry of Metropolitan Lille.** This beautiful neo-Flemish style building faces the Opera. To reach it, you can take the subway line 1 (the yellow one) and stop at Lille Flandres or Rihour. The place is just 5 minutes's walking distance away from either subway stations.



General Information

Badge. For safety reasons we ask you to please wear your name badge during the conference and during the social events.

Follow EGAS46 on twitter [@egas46](https://twitter.com/egas46)

Wireless in the conference rooms

- **Eduroam** network with your personal credentials.
- **LILLE1-SEMINAIRE** network with the credentials displayed in the conference rooms.

Taxi. We recommend you to use the following taxi companies:

- Taxi union: +33 3 20 06 06 06
- Gare Taxis Lille: +33 3 20 06 64 00

The contributions are identified by

PL for Plenary Lecture

IT for Invited Talk

CT for Contributed Talk

P for posters, sorted by topics.

Odd numbered posters are presented on Tuesday, whereas even numbered posters are presented on Thursday.

CONFERENCE PROGRAM

Tuesday, July 1

Plenary session PL1 (MACC's) - Chair: Henri Bachau

▶ **8:45** PL-1

Wim Ubachs

Precision measurements on molecules for tests of fundamental physics

▶ **9:30** PL-2

W. van der Zande

FELIX Facility Nijmegen: molecular physics with intense radiation from 0.2 to 100 THz

10:15 - 11:00: Coffee break (IUT A)

Parallel session PA1A (IUT A - 1A14) - Chair: Xavier Urbain

▶ **11:00** IT-1

G. Sansone

Ultrafast electronic dynamics initiated by attosecond and intense XUV pulses

▶ **11:30** CT-1

G. Karras, E. Hertz, M. Ndong, F. Billard, D. Sugny, B. Lavorel and O. Faucher

Controlling the orientation of the molecular angular momentum by shaping the polarization of a fs laser pulse

▶ **11:45** CT-2

S. Galtier, H. Fleurbaey, F. Nez, L. Julien and F. Biraben

High resolution spectroscopy of 1S-3S transition in hydrogen

▶ **12:00** CT-3

D. Guénot, E.P. Mansson, C.L. Arnold, D. Kroon, S.L. Sorensen, M. Gisselbrecht, A. L'Huillier, J.M. Dahlström and A.S. Kheifets

Probing double ionisation at the attosecond timescale

▶ **12:15** CT-4

A. Knie, A. Hans, M. Förstel, U. Hergenhahn, T. Jahnke, R. Dörner, A.I. Kuleff, L.S. Cederbaum, Ph.V. Demekhin and A. Ehresmann

Detecting ultrafast interatomic electronic processes in media by fluorescence

▶ **12:30** CT-5

E. Moufaretj, P. Ballin, I. Maurin, A. Laliotis and D. Bloch

Sub-Doppler linear spectroscopy in a vapour confined in an opal

Parallel session PA1B (IUT A - 1A04) - Chair: Gleb Gribakin

▶ **11:00** IT-2

M Weidemüller

Ultracold Rydberg Gases – Dipole Blockade, Interacting Polaritons and Energy Transport

▶ **11:30** CT-6

S. Knoop, P.S.Ż uchowski, D. Kędziera, Ł. Mentel, M. Puchalski, H.P. Mishra, A.S. Flores and W. Vassen

Ultracold mixtures of metastable triplet He and Rb: scattering lengths from *ab initio* calculations and thermalization measurements

▶ **11:45** CT-7

M. Jacquy, V. Carrat, C. Cabrera-Gutiérrez, J.W. Tabosa, B. Viaris de Lesegno and L. Pruvost

Long-distance channeling of cold atoms exiting a 2D magneto-optical trap by a Laguerre-Gaussian laser beam

▶ **12:00** CT-8

C. Lovecchio, S. Cherukattil, M. Ali-Khan, F. Caruso and F.S. Cataliotti

Control of Quantum Dynamics on an Atom-Chip

▶ **12:15** CT-9

S. Ravets, D. Barredo, H. Labuhn, L. Beguin, A. Vernier, F. Nogrette, T. Lahaye and A. Browaeys

Rydberg blockade in arrays of optical tweezers

▶ **12:30** CT-10

N. Behbood, F. Martin Ciurana, G. Colangelo, M. Napolitano, G. Tóth, R.J. Sewell and M.W. Mitchell

Generation of a macroscopic spin singlet

12:45 - 14:30: lunch (Barrois restaurant)

Plenary session PL2 (MACC's) - Chair: Guglielmo Tino

▶ 14:30 PL-3

D.J. Wineland

Superposition, Entanglement, and Raising Schrödinger's Cat

▶ 15:15 PL-4

S. Haroche

Juggling photons in a box to explore the quantum world

16:00: Poster session (IUT A)

Wednesday, July 2

Plenary session PL3 (MACC's) - Chair: Peter Barker

▶ 8:45 PL-5

G. O'Sullivan

Current status of source development for extreme ultraviolet lithography (EUVL)

▶ 9:30 PL-6

A. Nicolas, L. Veissier, L. Giner, D. Maxein, J. Laurat and E. Giacobino

Quantum Storage in Cold Atomic Ensembles

10:15 - 11:00: Coffee break (IUT A)

Parallel session PA2A (IUT A - 1A14) - Chair: Christiane Koch

▶ 11:00 IT-3

G. Morigi

Quantum crystals of photons and atoms

▶ 11:30 IT-4

N. Radwell, T.W. Clark and S. Franke-Arnold

Spatially dependent EIT from structured light

- ▶ **12:00** [CT-11](#)
G. Labeyrie, E. Tesio, P. Gomes, G.-L. Oppo, W.J. Firth, G.R.M. Robb, A.S. Arnold, R. Kaiser and T. Ackemann
 Optomechanical self-structuring in cold atoms
- ▶ **12:15** [CT-12](#)
A. Kosior and K. Sacha
 Condensate Phase Microscopy
- ▶ **12:30** [CT-13](#)
V. Bolpasi, N.K. Efremidis, M.J. Morrissey, P.C. Condylis, D. Sahagun, M. Baker and W. von Klitzing
 Ultra-high flux atom-lasers
- ▶ **12:45** [CT-14](#)
A. de Paz, A. Sharma, A. Chotia, E. Maréchal, P. Pedri, L. Vernac, B. Laburthe-Tolra and O. Gorceix
 Quantum magnetism with a Bose-Einstein Condensate

Parallel session PA2B (IUT A - 1A04) - Chair: Wim Vassen

- ▶ **11:00** [IT-5](#)
A. Antognini
 Muonic atoms: from atomic to nuclear and particle physics
- ▶ **11:30** [IT-6](#)
M. Kunitzki, J. Voigtsberger, S. Zeller, L. Schmidt, R. Grisenti, M. Schöffler, F. Trinter, H. Kim, F. Trinter, W. Schöllkopf, D. Bressanini, T. Jahnke and R. Dörner
 Imaging the wavefunction of He₂, He₃ and the Efimov state of He₃
- ▶ **12:00** [CT-15](#)
C.C. Kwong, T. Yang, D. Delande, R. Pierrat and D. Wilkowski
 Coherent superflash effect in cold atoms: Revealing forward scattering field in optically dense medium
- ▶ **12:15** [CT-16](#)
F. Köhler, S. Sturm, A. Wagner, G. Werth, W. Quint and K. Blaum
 A 13-fold improved value for the electron mass
- ▶ **12:30** [CT-17](#)
H. Ulbricht
 Experimental Tests of Macroscopic Quantum Superposition

▶ 12:45 CT-18

Y.R.P. Sortais, J. Pellegrino, R. Bourgain, S. Jennewein, A. Browaeys, S.D. Jenkins and J. Ruostekoski

Collective suppression of light scattering in a cold atomic ensemble

13:00 - 14:30: lunch (Barrois restaurant)

Thursday, July 3

Plenary session PL4 (MACC's) - Chair: Laurence Pruvost

▶ 8:45 PL-7

G. Rempe

Cold Polyatomic Molecules: The New Frontier

▶ 9:30 PL-8

O. Pedatzur, H. Soifer, D. Shafir, G. Orenstein, A.J. Uzan, M. Dagan, B. Bruner, N. Dudovich, V. Serbinenko, O. Smirnova and M. Ivanov

Resolving and manipulating attosecond processes via strong-field light-matter interactions

10:15 - 11:00: Coffee break (IUT A)

Parallel session PA3A (IUT A - 1A14) - Chair: Marcis Auzinsh

▶ 11:00 IT-7

J.-M. Pirkkalainen, S.U. Cho, F. Massel, J. Tuorila, X. Song, P.J. Hakonen, T.T. Heikkilä and M.A. Sillanpää

Optomechanics at microwave frequencies: mechanical resonators coupled to microwave cavities and superconducting qubits

▶ 11:30 CT-19

C. Blondel, M. Vandevraye, Ph. Babilotte and C. Drag

A new method to measure photoabsorption cross-sections questions the value of the photodetachment cross-section of H^-

- ▶ **11:45** [CT-20](#)
C. Shah, P. Amaro, R. Steinbrügge, S. Bernitt, Z. Harman, S. Fritzsche, A. Surzhykov, J.R. Crespo López-Urrutia and S. Tashenov
 Measurement of the X-ray emission anisotropies in the resonant photorecombination into highly charged ions
- ▶ **12:00** [CT-21](#)
M. Génévriez, X. Urbain, M. Brouri, K. Dunseath and M. Terao-Dunseath
 Experimental and theoretical study of 3-photon ionization $\text{He}(1s2s^3S)$ and $\text{He}(1s2p^3P)$
- ▶ **12:15** [CT-22](#)
T.E. Wall, D.B. Cassidy and S.D. Hogan
 Non-resonant two-photon excitation to high Rydberg states
- ▶ **12:30** [CT-23](#)
M. Trassinelli, A. Salehzadeh, T. Kirchner, C. Prigent, E. Lamour, J.-P. Rozet, S. Steydli and D. Vernhet
 Contribution of multiple capture processes in slow collisions of highly charged ions with a many-electron target

Parallel session PA3B (IUT A - 1A04) - Chair: Roland Wester

- ▶ **11:00** [IT-8](#)
D.B. Cassidy
 Some recent developments in experimental positronium physics
- ▶ **11:30** [CT-24](#)
G. Rosi, F. Sorrentino, G.M. Tino, L. Cacciapuoti and M. Prevedelli
 Measurement of the gravitational constant G by atom interferometry
- ▶ **11:45** [CT-25](#)
F. Lépine, S. Cohen, M.J.J. Vrakking and C. Bordas
 Wavefunction Microscopy: Simple Atoms under Magnification
- ▶ **12:00** [CT-26](#)
P. Geyer, N. Dörre, P. Haslinger, J. Rodewald, S. Nimmrichter and M. Arndt
 Quantum interferometry in the time-domain with massive particles
- ▶ **12:15** [CT-27](#)
K. Dulitz, A. Tauschinsky, M. Motsch, N. Vanhaecke and T.P. Softley
 Transverse Focusing Effects in the Zeeman Deceleration of Hydrogen Atoms

▶ **12:30** CT-28

R. Geiger, W. Chaibi, B. Canuel, A. Bertoldi, A. Landragin, L. Amand, S. Gaffet, E. Cormier and P. Bouyer

Hybrid Atom-Optical Interferometry for Gravitational Wave Detection and Geophysics

12:45 - 13:15: EGAS general assembly (IUT A - 1A14)

13:15 - 14:30: lunch (Barrois restaurant)

Parallel session PA4A (IUT A - 1A14) - Chair: Valérie Vallet

▶ **14:30** IT-9

Rosario González Férez

Non-adiabatic effects in laser orientation and alignment of molecules

▶ **15:00** CT-29

S. Kokkelmans, Z. Shotan, O. Machtey and L. Khaykovich

Three-body recombination for vanishing scattering lengths

▶ **15:15** CT-30

A. Mauracher, M. Daxner, J. Postler, S.E. Huber, S. Denifl, P. Scheier and J.P. Toennies

Detection of Negative Charge Carriers in Superfluid Helium Droplets: The Metastable Anions He^{-*} and He_2^{-*}

▶ **15:30** CT-31

A. Cygan, P. Wcisło, S. Wójtewicz, P. Masłowski, R.S. Trawiński, R. Ciuryło and D. Lisak

Three different approaches to cavity-enhanced spectroscopy

▶ **15:45** CT-32

S.C. Mathavan, C. Meinema, J.E. van den Berg, H.L. Bethlem and S. Hoekstra

Deceleration, cooling and trapping of SrF molecules for precision spectroscopy

Parallel session PA4B (IUT A - 1A04) - Chair: José Crespo

▶ **14:30** IT-10

A.K. Hansen, O.O. Versolato, Ł. Kłosowski, S.B. Kristensen, A. Gingell, M. Schwarz, A. Windberger, J. Ullrich, J.R. Crespo López-Urrutia and M. Dreusen

Rotational Cooling of Coulomb-Crystallized Molecular Ions by a Helium Buffer Gas

▶ **15:00** CT-33

M.R. Kamsap, J. Pedregosa-Gutierrez, C. Champenois, D. Guyomarc'h, M. Houssin and M. Knoop

Ion clouds in radio-frequency linear traps: transport and phase transitions

▶ **15:15** CT-34

S.H.W. Wouters, G. ten Haaf, J.F.M. van Rens, S.B. van der Geer, O.J. Luiten, P.H.A. Mutsaers and E.J.D. Vredenburg

High-resolution Focussed Ion Beam by laser cooling and compression of a thermal atomic beam

▶ **15:30** CT-35

E. Jordan, G. Cerchiari and A. Kellerbauer

Towards Laser Cooling of Negative Ions

▶ **15:45** CT-36

O.Yu. Andreev, E.A. Mistonova and A.B. Voitkiv

Transfer ionization in collisions of bare nuclei with light atoms

16:00: Poster session (IUT A)

Friday, July 4

Mini Symposium (MACC's) - Chair: Philippe Verkerk

▶ **9:00** PL-9

J. Dalibard

Bose-Einstein condensates and antiferromagnetic interactions: An illustration of symmetry breaking

▶ **9:45** [IT-11](#)

F. Malet Giralt, A. Mirtschink, J. Bjerlin, C. Mendl, S. Reimann and P. Gori-Giorgi

Density Functional Theory for strongly-correlated ultracold atom gases

10:30 - 11:15: Coffee break (MACC's)

Mini Symposium (MACC's) - Chair: Philippe Verkerk

▶ **11:00** [PL-10](#)

T. Fleig

Rigorous Relativistic Many-Body Methods for Exploring Fundamental Physics in Atoms and Molecules

▶ **11:45** [IT-12](#)

A. N. Wenz

Experiments with finite Fermi systems in the crossover from few to many-body physics

List of Posters

Fundamental physics with atoms/molecules

▶ [P-1](#)

A. Kozlov, V.V. Flambaum and V.A. Dzuba

Polarizabilities of Actinides and Lanthanides

▶ [P-2](#)

Ph.V. Demekhin

On the breakdown of the electric dipole approximation for hard X-ray photoionization cross sections

▶ [P-3](#)

I. Temelkov, H. Knöckel, A. Pashov and E. Tiemann

Finding pathways for creation of cold molecules by laser spectroscopy

▶ [P-4](#)

P. Stefańska and R. Szmytkowski

The M1-to-E2 and E1-to-M2 cross-susceptibilities of the Dirac one-electron atom

- ▶ **P-5**
D. Solov'yev, V. Dubrovich, L. Labzowsky and G. Plunien
Influence of external fields on the hydrogen atom in some problems of astrophysics
- ▶ **P-6**
S.M.K. Law and S.F.C. Shearer
Above-threshold detachment of Si^- by few-cycle femtosecond laser pulses
- ▶ **P-7**
P. Wcisło, F. Thibault, H. Cybulski and R. Ciuryło
Strong competition between velocity-changing and phase/state changing collisions in H_2 spectra perturbed by Ar
- ▶ **P-8**
A.E. Bonert, D.V. Brazhnikov, A.N. Goncharov, A.M. Shilov, A.V. Taichenachev and V.I. Yudin
Laser cooling of magnesium atoms with increased ultracold fraction
- ▶ **P-9**
K.N. Lyaschenko and O.Yu. Andreev
Differential cross section of dielectronic recombination with H-like uranium
- ▶ **P-10**
B.M. Lagutin, I.D. Petrov, V.L. Sukhorukov, A. Ehresmann, K.-H. Scharfner and H. Schmoranzner
 $4d^9np$ resonant Auger effect in Xe: interchannel interaction as a dominant effect in the population of high angular momentum final ionic states
- ▶ **P-11**
I.D. Petrov, B.M. Lagutin, V.L. Sukhorukov, A. Ehresmann and H. Schmoranzner
Manifestation of the $4d\text{-}\epsilon f$ giant resonance in the $\text{N}_{4,5}\text{OO}$ Auger effect in Xe
- ▶ **P-12**
A.T. Kozakov, A.V. Nikolsky, K.A. Googlev, I.D. Petrov, B.M. Lagutin, V.L. Sukhorukov, H. Huckfeldt, D. Holzinger, A. Gaul and A. Ehresmann
Nature of photoemission in the range of the $5s$ -photoelectron spectrum of iridium
- ▶ **P-13**
H. Agueny, A. Makhoute and A. Dubois
Resonant electron-capture in ion-atom collisions: Fraunhofer diffraction pattern

▶ P-14

J.C. Berengut, V.A. Dzuba, V.V. Flambaum and A. Ong

Using highly charged ions to probe possible variations in the fine-structure constant

▶ P-15

J.C. Berengut, V.V. Flambaum, A. Ong, J.K. Webb, J.D. Barrow, M.A. Barstow, S.P. Preval and J.B. Holberg

Limits on the dependence of the fine-structure constant on gravitational potential from white-dwarf spectra

▶ P-16

Gö. Başar, Gü. Başar, I.K. Öztürk, F. Güzelçimen, A. Er, S. Kröger and L. Windholz

Confirmation of New Even-parity Energy Levels of La I by Laser-Induced Fluorescence Spectroscopy

▶ P-17

B. Decamps, J. Gillot, A. Gauguet, J. Vigué and M. Büchner

Production and detection of phase modulation of matter waves

▶ P-18

J. Gillot, S. Lepoutre, A. Gauguet, J. Vigué and M. Büchner

Atom interferometry measurements of the He-McKellar-Wilkens and the Aharonov-Casher geometric phases

▶ P-19

O. Kovtun, S. Tashenov, V. Tioukine, A. Surzhykov, V.A. Yerokhin and B. Cederwall

Strong correlation between the electron spin orientation and bremsstrahlung linear polarization observed in the relativistic regime

▶ P-20

S. Werbowy, H. Hühnermann, J. Kwela and L. Windholz

Zeeman effect investigations in ^{142}Nd II using Collinear Ion Beam Laser Spectroscopy

▶ P-21

L. Windholz, B. Gamper, T. Binder and J. Dembczynski

New energy levels of the La Atom found by a combination of several spectroscopic techniques

- ▶ **P-22**
Z. Uddin, L. Windholz, G.H. Guthöhrlein, S. Zehra and S. Jilani
 New Energy Levels of the Pr Atom found by Analyzing a Fourier Transform Spectrum
- ▶ **P-23**
A. Er, Gö. Başar, I.K. Öztürk, F. Güzelçimen, M. Tamanis, R. Ferber and S. Kröger
 Investigation of Fourier Transform Spectrum of Niobium in Argon Discharge in the near-infrared
- ▶ **P-24**
F. Güzelçimen, N. Al-Labady, Gö. Başar, I.K. Öztürk, A. Er, S. Kröger, M. Tamanis and R. Ferber
 Investigation of the hyperfine structure of atomic vanadium for energetically high-lying levels up to $45\,000\text{ cm}^{-1}$
- ▶ **P-25**
I.K. Öztürk, B. Atalay, G. Çelik, F. Güzelçimen, A. Er, Gö. Başar and S. Kröger
 Theoretical oscillator strengths for the Sc I
- ▶ **P-26**
A. Tonoyan, A. Sargsyan, H. Hakhumyan, Y. Pashayan-Leroy, C. Leroy and D. Sarkisyan
 Behaviour of atomic transitions of Rb D_2 line in strong magnetic fields
- ▶ **P-27**
E. Efremova, M. Gordeev and Yu. Rozhdestvensky
 Localization of Atomic Populations due to Field of Running Waves
- ▶ **P-28**
A. Laliotis, T. Passerat de Silans, I. Maurin, M. Ducloy and D. Bloch
 Probing near field thermal emission with atoms
- ▶ **P-29**
J. Singh and K.L. Baluja
 Electron–impact study of O_2 molecule: R -matrix method
- ▶ **P-30**
F. Tommasi, E. Ignesti, L. Fini and S. Cavaliere
 Vanishing the delay of a light pulse induced by propagation in matter

▶ P-31

Et. Es-sebbar, M. Deli and A. Farooq

Line intensities and pressure broadening coefficients in the ν_1 band of N_2O molecule using IR spectroscopy : N_2 , O_2 and Ar bath gas effect

▶ P-32

S. Kanda

Precision measurement of muonium hyperfine splitting at J-PARC

▶ P-33

G.F. Gribakin and A.R. Swann

Positron binding to polar molecules

▶ P-34

E. Fasci, N. Collucelli, A. Gambetta, M. Cassinero, M. Marangoni, P. Laporta, L. Gianfrani, A. Castrillo and G. Galzerano

Quantum cascade laser emission width narrowing at the kHz level by means of optical feedback

▶ P-35

V.V. Meshkov and A.V. Stolyarov

An efficient calculation of the scattering wavefunction and phase shift

▶ P-36

D.A. Glazov, A.V. Volotka, V.A. Agababaeu, M.M. Sokolov, A.A. Shchepetnov, V.M. Shabaev, I.I. Tupitsyn and G. Plunien

Zeeman splitting in lithium-like and boron-like ions

▶ P-37

J. Šmydke and P.R. Kaprálová-Žánská

Basis Set Optimization Method for Rydberg States – GTO Basis Sets for He and Be

▶ P-38

S.K. Tokunaga, A. Shelkownikov, P.L.T. Sow, S. Mejri, O. Lopez, A. Goncharov, B. Argence, C. Daussy, A. Amy-Klein, C. Chardonnet and B. Darquié

Search for a parity violation effect in chiral molecules: old dream and new perspectives

▶ P-39

A. Mohanty, E.A. Dijck, M. Nuñez Portela, A. Valappol, A.T. Grier, O. Böll, S. Hoekstra, K. Jungmann, C.J.G. Onderwater, R.G.E. Timmermans, L. Willmann and H.W. Wilschut

Atomic Parity Violation in a single trapped Ra^+ ion.

- ▶ **P-40**
R.P.M.J.W. Notermans, R.J. Rengelink and W. Vassen
 Measurement of the forbidden $2\ ^3S_1 \rightarrow 2\ ^1P_1$ transition in quantum degenerate helium

- ▶ **P-41**
V. Fivet, P. Quinet and M. Bautista
 Radiative data of lowly-ionized iron-peak elements for transitions of astrophysical interest

- ▶ **P-42**
J.R. Crespo López-Urrutia, S. Bernitt, J.K. Rudolph, R. Steinbrügge, S.W. Epp and J. Ullrich
 QED tests of heliumlike systems with X-ray laser spectroscopy

- ▶ **P-43**
J. Kaushal, H. Rey, O. Smirnova and H. van der Hart
 Correlation Channels in Sequential Double Ionisation

- ▶ **P-44**
J. Hinney, E. Haller, J. Hudson, A. Kelly, D. Cotta, G. Bruce and S. Kuhr
 Towards single-atom-resolved detection of strongly correlated fermions in an optical lattice

- ▶ **P-45**
D. Baye, L. Filippin and M. Godefroid
 Accurate relativistic properties of hydrogenic atoms with the Lagrange-mesh method

- ▶ **P-46**
M. Auzinsh, A. Berzins, R. Ferber, F. Gahbauer, L. Kalvans, A. Mozers and A. Spiss
 Alignment to orientation conversion of rubidium atoms under D_2 excitation in an external magnetic field: experiment and theory

- ▶ **P-47**
M. Auzinsh, A. Berzins, R. Ferber, F. Gahbauer, U. Kalninsh, L. Kalvans, A. Papoyan, R. Rundans and D. Sarkisyan
 Experimental measurements and an improved theoretical description of magneto-optical signals of the cesium D_1 transition in an extremely thin cell

▶ P-48

M. Auzinsh, L. Kalvans, R. Lazda, J. Smits and L. Busaite

The identification of stable dark states of a single nitrogen vacancy (NV) center surrounded by several ^{13}C atoms in a diamond lattice

▶ P-49

F. Köhler, J. Hou, S. Sturm, A. Wagner, G. Werth, W. Quint and K. Blaum

The g-factors of lithiumlike $^{40,48}\text{Ca}^{17+}$ and their isotopic effect

▶ P-50

J. Zamastil and V. Patkóš

The self-energy of bound electron

▶ P-51

S.Y. Yousif Al-Mulla

Modification of The Atomic Scattering Factor in Electric Field

▶ P-52

S. Scotto, R. Battesti, M. Fouché, E. Arimondo, D. Ciampini and C. Rizzo

Rubidium spectroscopy in high magnetic fields

▶ P-53

M. Tajima, N. Kuroda, S. Ulmer, D.J. Murtagh, S. Van Gorp, Y. Nagata, M. Diermaier, S. Federmann, M. Leali, C. Malbrunot, V. Mascagna, O. Massiczek, K. Michishio, T. Mizutani, A. Mohri, H. Nagahama, M. Ohtsuka, B. Radics, S. Sakurai, C. Sauerzopf, K. Suzuki, H.A. Torii, L. Venturelli, B. Wünschek, J. Zmeskal, N. Zurlo, H. Higaki, Y. Kanai, E. Lodi Rizzini, Y. Nagashima, Y. Matsuda, E. Widmann and Y. Yamazaki

Towards the hyperfine spectroscopy of ground-state antihydrogen atoms

▶ P-54

A. Touat, M. Nemouchi, T. Carette and M.R. Godefroid

Calculations of the hyperfine constants of $^{35}\text{Cl } 3p^4 4s \ ^4P$ and $3p^4 4p \ ^4D$

▶ P-55

M. Piwiński, Ł. Kłosowski, D. Dziczek and S. Chwirot

Coincidence studies of electron impact excitation of Zn atoms

▶ P-56

H. Hartman, L. Engström, H. Lundberg and H. Nilsson

Two-photon Excitation of high-lying 4d levels in FeII and oscillator strengths for non-LTE stellar atmosphere models

- ▶ **P-57**
L. Engström, H. Lundberg, H. Nilsson, H. Hartman and E. Bäckström
 The FERRUM project: Experimental Transition Probabilities from Highly Excited Even 5s Levels in Cr II
- ▶ **P-58**
R. Drozdowski, J. Kwela and L. Windholz
 Computer modelling of intensities of helium Stark lines in regions of levels anticrossings.
- ▶ **P-59**
P.L.T Sow, S. Mejri, S.K Tokunaga, O. Lopez, A. Goncharov, A. Argence, C. Chardonnet, A. Amy-Klein, B. Darquié and C. Daussy
 A Widely Tunable 10 μm QCL Locked to a Metrological Mid-IR Reference for Precision Molecular Spectroscopy
- ▶ **P-60**
S. Carlström, J. Mauritsson and K.J. Schafer
 Quantum State Preparation and Holography
- ▶ **P-61**
R. Drozdowski, E. Baszanowska, P. Kamiński and G. von Oppen
 Excitation of singlet and triplet He states by neutral He - He collisions at intermediate energy range
- ▶ **P-62**
P. Lancuba and S.D. Hogan
 A transmission-line decelerator for atoms in high Rydberg states
- ▶ **P-63**
O.M. Hole, E. Bäckström, M. Kaminska, R. Nascimento, J.D. Alexander, M. Björkhage, M. Blom, L. Brännholmä, M. Gatchell, P. Halldén, F. Hellberg, G. Källersjö, A. Källberg, S. Leontein, L. Liljeby, P. Löfgren, A. Paál, P. Reinhed, S. Rosén, A. Simonsson, R.D. Thomas, D. Hanstorp, S. Mannervik, H.T. Schmidt and H. Cederquist
 Measurements of anion lifetimes in the Double Electrostatic Ion Ring Experiment DESIREE: Preliminary results
- ▶ **P-64**
J.S. Bumby, J.A. Almond, S. Skoff, N. Fitch, B.E. Sauer, M.R. Tarbutt and E.A. Hinds
 Slow beams of cold molecular radicals for precision spectroscopy

▶ P-65

K. Makles, I. Krasnokutska, C. Caer, S. Deleglise, T. Briant, P-F Cohadon, A. Heidmann and M. Makles

Cavity optomechanics with photonic crystal nanomembrane

Cold atoms and quantum gases

▶ P-66

V.S. Melezhik

Ultracold collisional processes in atomic traps

▶ P-67

O. Machtey, Z. Shotan, S. Kokkelmans and L. Khaykovich

Three-body recombination at the scattering length's zero-crossings

▶ P-68

M. Lepers, J.-F. Wyart and O. Dulieu

Anisotropic optical trapping of ultracold erbium atoms

▶ P-69

E.A. Koval, O.A. Koval and V.S. Melezhik

Anisotropic quantum scattering in plane

▶ P-70

P. Cheinet, R. Faoro, B. Pelle, E. Arimondo and P. Pillet

Control of few body resonant-transfer interactions in a cold Rydberg gas

▶ P-71

A.A. Korobitsin and E.A. Kolganova

Theoretical study of the rare gases dimers

▶ P-72

O.A. Koval and E.A. Koval

Modeling of bound states of quantum systems in a two-dimensional geometry of atomic traps

▶ P-73

T. Vanderbruggen, S. Palacios, S. Coop, N. Martinez and M.W. Mitchell

A continuous source of spin-polarized cold atoms

▶ P-74

M. Robert-de-Saint-Vincent, R.J. Fletcher, J. Man, N. Navon, R.P. Smith and Z. Hadzibabic

Superfluid transition in a 2D Bose gas with tunable interactions

- ▶ **P-75**
U. Eismann, C. Shi, J.-L. Robyr, R. Le Targat and J. Lodewyck
Cavity-enhanced non-destructive detection of atomic populations in Optical Lattice Clocks
- ▶ **P-76**
C.E. Creffield and F. Sols
Generating synthetic gauge potentials by split driving of an optical lattice
- ▶ **P-77**
M.R. Henriksen, S.A. Schäffer, B.T.R. Christensen, P.G. Westergaard, J. Ye and J.W. Thomsen
Observing collective effects of Strontium in an optical cavity
- ▶ **P-78**
J.J. Kinnunen
Spectroscopies of dilute Fermi liquids
- ▶ **P-79**
M. Witkowski, S. Bilicki, B. Nagórny, B. Przewięźlikowski, R. Muñoz-Rodríguez, P.Ż uchowski, R. Ciuryło and M. Zawada
A Double Magneto-Optical Trap for Hg and Rb
- ▶ **P-80**
J.P. McGilligan, P.F. Griffin, E. Riis and A.S. Arnold
Grating chips for quantum technologies.
- ▶ **P-81**
C.H. Carson, Yueyang Zhai, P.F. Griffin, E. Riis and A.S. Arnold
Maximum Contrast Condensate Interference
- ▶ **P-82**
C. Leboutteiller, S. Garcia, F. Ferri, J. Reichel and R. Long
Single atoms register in a micro-cavity for multi-particle entanglement
- ▶ **P-83**
R. Romain, P. Verkerk and D. Hennequin
Observation of spatio-temporal instabilities in a Magneto-Optical Trap
- ▶ **P-84**
S. Palacios, S. Coop, T. Vanderbruggen, N. Martinez and M.W. Mitchell
Tuning effective magnetic dipolar interactions in Rb spinor condensates

- ▶ P-85
Y.N. Martinez de Escobar, S. Palacios, S. Coop, T. Vanderburggen and M.W. Mitchell
Modulation Transfer and Double-Resonance Optical Pumping with optical transitions in ^{87}Rb
- ▶ P-86
C. Yuce
Quantum Tunneling in a Quasi-periodically Driven Optical Lattice
- ▶ P-87
O. Vainio, L. Lehtonen, J. Järvinen, J. Ahokas, S. Sheludyakov, D. Zvezdov, K.-A. Suominen and S. Vasiliev
Spontaneous coherence of magnons in spin-polarized atomic hydrogen gas
- ▶ P-88
B. Vemersch and J.C. Garreau
Emergence of nonlinearity in bosonic ultracold gases
- ▶ P-89
S. Coop, S. Palacios, N. Martinez, T. Vanderbruggen and M.W. Mitchell
Light-Shift Tomography of an Optical Dipole Trap
- ▶ P-90
M. Plodzien, J. Zakrzewski and J. Major
Localization in disordered time-dependent lattices
- ▶ P-91
C. Hainaut, I. Manai, J.F. Clément, R. Chicireanu, P. Szriftgiser and J.C. Garreau
Studying Anderson transitions with atomic matter waves

Quantum optics/information/cold ions

- ▶ P-92
J. Fiedler and S. Scheel
Tomographic reconstruction of molecular properties from interference measurements
- ▶ P-93
B. Szymanski, J.-P. Likforman, S. Guibal, C. Manquest, L. Guidoni and M. Woytasik
Heating-rate measurements in micro-fabricated surface traps containing Sr^+ ions

- ▶ **P-94**
G. ten Haaf, S.H.W. Wouters, S.B. van der Geer, O.J. Luiten, P.H.A. Mutsaers and E.J.D. Vredenbregt
 Focused ion beam based on laser cooling: towards sub-nm ion beam milling
- ▶ **P-95**
L. Schmöger, O.O. Versolato, M. Schwarz, M. Kohnen, T. Leopold, A. Windberger, J. Ullrich, P.O. Schmidt and J.R. Crespo López-Urrutia
 Towards precision laser spectroscopy with cold highly charged ions
- ▶ **P-96**
M. Schwarz, O.O. Versolato, L. Schmöger, M. Kohnen, T. Leopold, P. Micke, J. Ullrich, P.O. Schmidt and J.R. Crespo López-Urrutia
 A novel cryogenic Paul Trap for Quantum Logic Spectroscopy of Highly Charged Ions
- ▶ **P-97**
J.-Ph. Karr, A. Douillet, N. Sillitoe and L. Hilico
 Cold hydrogen molecular ion spectroscopy for proton to electron mass ratio measurement
- ▶ **P-98**
R.A. Nyman and J. Marelic
 Photon BEC in a dye-microcavity system and the effects of interactions

Molecular physics, cold molecules and molecular ions

- ▶ **P-99**
A. Grochola, J. Szczepkowski, W. Jastrzebski and P. Kowalczyk
 Investigation of the excited electronic KCs states studied by polarization labeling spectroscopy
- ▶ **P-100**
J. Szczepkowski, P. Jasik, A. Grochola, W. Jastrzebski, J.E. Sienkiewicz and P. Kowalczyk
 Spectroscopic study of the $4^1\Sigma^+$ state of LiCs and comparison with theory
- ▶ **P-101**
O. Ryazanova, V. Zozulya, I. Voloshin, V. Karachevtsev, L. Dubey and I. Dubey
 Spectroscopic studies on binding of novel pheophorbide - phenazine conjugated synthetic polynucleotides

▶ P-102

S. Wójtewicz, A. Cygan, P. Masłowski, J. Domysławska, P. Wcisło, M. Zaborowski, M. Piwiński, D. Lisak, R.S. Trawiński and R. Ciuryło

Precise line-shape measurements of oxygen B-band transitions with absolute frequency reference

▶ P-103

P.R. Kaprálová-Žánková and J. Šmydke

Towards ab initio dynamical simulations of atoms, molecules, and clusters in femtosecond XUV pulses

▶ P-104

R. Hakalla, M. Zachwieja, W. Szajna, I. Piotrowska, M. Ostrowska-Kopeć, P. Kolek and R. Kępa

First analysis of the Herzberg ($C^1\Sigma^+ \rightarrow A^1\Pi$) band system in the lesser-abundant $^{13}\text{C}^{17}\text{O}$ isotopologue

▶ P-105

M. Ivanova, A. Pashov, H. Knöckel, A. Stein and E. Tiemann

High resolution spectroscopy on alkali-alkaline earth molecules

▶ P-106

T. Urbanczyk and J. Koperski

Separation of overlapped profiles originated from different complexes excited in a supersonic expansion beam experiment

▶ P-107

D.A. Holland, R.J. Hendricks, S. Truppe, B.E. Sauer and M.R. Tarbutt

Direct laser cooling of the BH molecule

▶ P-108

I. Ricciardi, S. Mosca, M. Parisi, P. Maddaloni, L. Santamaria, M. De Rosa, G. Giusfredi and P. De Natale

Ultra-narrow-linewidth Mid-infrared Optical Parametric Oscillator

▶ P-109

R. Glöckner, A. Prehn, M. Krottenmüller, M. Zeppenfeld and G. Rempe

Rotational state manipulation of trapped polyatomic molecules

▶ P-110

S Bouazza, R.A. Holt, D.S. Rosner and N.M.R. Armstrong

Fine Structure Analysis of the Configuration System of V II

▶ P-111

J. Lovric, S. Briquez, D. Duflot, M. Monnerville, B. Pouilly and C. Toubin
Molecular dynamics simulations of palmitic acid adsorbed on NaCl surface.

▶ P-112

A.S.P. Gomes, F. Réal, V. Vallet, Ch.R. Jacob, S. Höfener and L. Visscher
WFT-in-DFT Embedding with Coupled-Cluster Wavefunctions

▶ P-113

M. Olejniczak, F. Réal, A.S.P. Gomes, F. Viot and V. Vallet
Theoretical modeling of thermodynamical properties of actinide complexes

Applications of AMO Physics: Astrophysics, sensors, plasma physics,...

▶ P-114

G. Dobrev, A. Pashov, P. Crozet and A. Ross
Spectropolarimetry of the FeH molecule in the near-IR

▶ P-115

C.H. Chang, C.H. Liu, K.F. Lee, K.Y. Lin, R.S. Chen and M.H. Chen
Low Temperature Plasma Jet for Application in Dental Bleaching

▶ P-116

F. Bouchelaghem and M. Bouledroua
Transport properties drawn from ion-atom collisions. Case of ${}^6\text{Li}-{}^6\text{Li}^+$ and ${}^6\text{Li}-{}^7\text{Li}^+$

▶ P-117

E. Träbert and P. Beiersdorfer
Laboratory astrophysics: EBIT spectra around the EUV bands of the SDO/AIA instrument

▶ P-118

F. Rohart, S. Mejri, P.L.T. Sow, S.K. Tokunaga, B. Darquié, C. Daussy, A. Castrillo, H. Dinesan, E. Fasci and L. Gianfrani
Absorption line shape analysis beyond the bandwidth detection limit: application to the Boltzmann constant determination

Ultrafast processes

▶ P-119

F.L. Constantin
Frequency conversion with a photomixer for high-resolution broadband spectroscopy

Photophysics and collisions, AMO physics at large facilities

▶ P-120

G. Labaigt and A. Dubois

Close-coupling CI-approach of atomic and molecular collisions: new perspectives on inner-shell processes in $H^+ - Li$

▶ P-121

C. Prigent, M. Trassinelli, E. Lamour, A. Lévy, S. Macé, J.-P. Rozet, S. Steydli and D. Vernhet

Collisions dynamics of electrons, photons, and highly-charged ions with clusters to probe the aggregation in a pulsed supersonic jet

▶ P-122

M. Ya. Agre

Multipole expansions in the theory of light radiation by atomic systems

▶ P-123

N.B. Tyndall and C.A. Ramsbottom

Photoionization cross sections of Ar^+ ions

▶ P-124

P. Palmeri, P. Quinet, Z.W. Dai, Q. Wang, L.Y. Jiang, X. Shang, Y.S. Tian and W. Zhang

Determination of Radiative Parameters for the V I and V II Spectra: TR-LIF Measurements and HFR+CPOLE Calculations

▶ P-125

I.I. Fabrikant and G.F. Gribakin

Similarity between Ps-atom and electron-atom scattering

▶ P-126

P.M. Mishra, J. Rajput, C.P. Safvan, S. Vig and U. Kadhane

Energetics of intermediate velocity proton collision with naphthalene

▶ P-127

P.M. Mishra, L. Avaldi, P. Bolognesi, K.C. Prince, R. Richter and U. Kadhane

Valence shell photoelectron spectroscopy for PAHs and its significance

▶ P-128

E.V. Gryzlova, A.N. Grum-Grzhimailo, S.I. Strakhova and E.I. Kuzmina

Two-photon sequential double ionization of noble gases by circular polarized XUV radiation

Mesoscopic quantum systems

▶ P-129

P. Asenbaum, S. Kuhn, U. Sezer, S. Nimmrichter and M. Arndt
Cavity cooling of silicon nanoparticles

Post-deadline papers

▶ P-130

T. Ohyama-Yamaguchi and A. Ichimura
Screening effect on multiple ionization of Ar₂ by highly charged ions

List of Participants

(cross-referenced to the contribution numbers)

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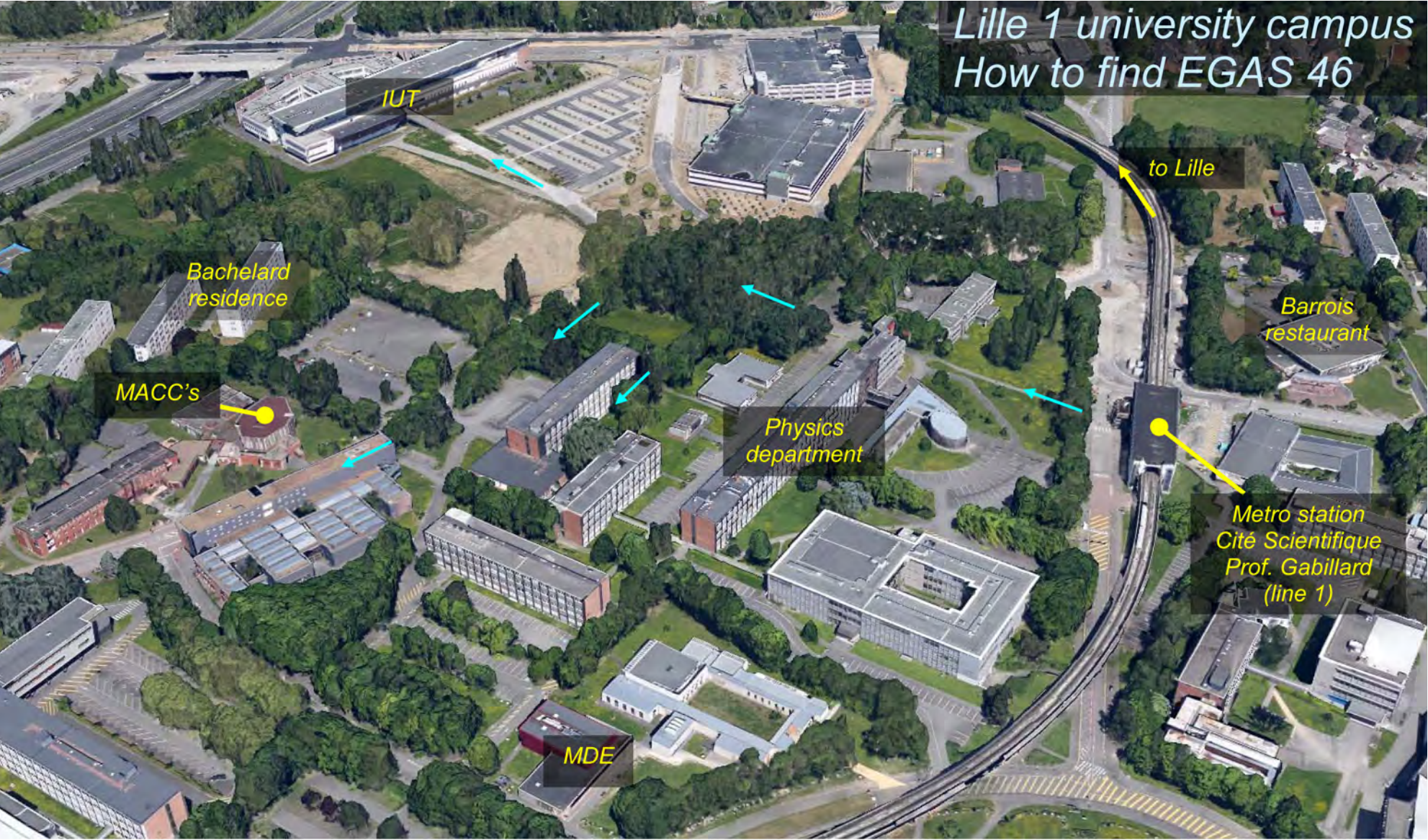
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