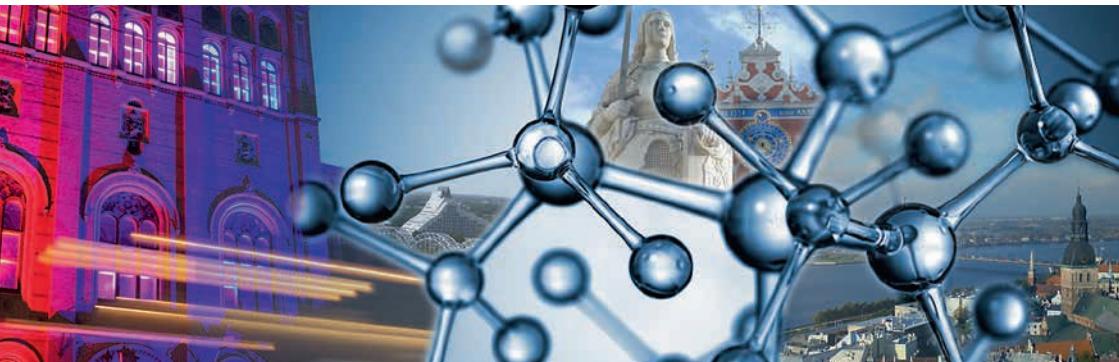




47th Conference of the European
Group on Atomic Systems



Riga – Latvia

July 14–17, 2015

Conference Booklet

Institutional support



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Conference Booklet



47th Conference of the European
Group on Atomic Systems

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Volume Editors

Marcis Auzinsh (Chairman)

Jānis Stonis

Andra Damberga

Alīna Gržibovska

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Program

	Monday, 13 July	Tuesday, 14 July	Wednesday, 15 July	Thursday, 16 July	Friday, 17 July
8:00		Registration open			
8:15					
8:30		Opening (Aula Magna)	Plenary session Aula Magna M. Safranova	Plenary session Aula Magna F. Ferlaino	
8:45		Plenary session Aula Magna Y. Silberberg			
9:00					
9:15					Mini Symposium M1
9:30					Aula Magna
9:45					D. Budker
10:00		EPS Invited Speaker, Sir M. Berry J. M. Raimond	Coffee and tea break	Coffee and tea break	G. Tino
10:15		Coffee and tea break			
10:30			Parallel sessions PA2	Parallel sessions PA3	Coffee and tea break
10:45					
11:00			Auditorium 7 R. Moszynski	Auditorium 7 T. Scähtz	Mini Symposium M2
11:15					
11:30					Aula Magna
11:45			Auditorium 9 S. Willitsch (lecture sponsored by EPJ)	S. Maniscalco	M. Kozlov
12:00			Lunch		
12:15		Lunch		EGAS General Assembly	Closing (Aula Magna)
12:30					
12:45				Lunch	Lunch
13:00					
13:15					
13:30					

	Monday, 13 July	Tuesday, 14 July	Wednesday, 15 July	Thursday, 16 July	Friday, 17 July
13:45					
14:00					
14:15					
14:30					
14:45					
15:00					
15:15		Coffee and tea break			
15:30					
15:45				Coffee and tea break	
16:00					
16:15					
16:30					
16:45					
17:00	Registration open				
17:15					
17:30					
17:45					
18:00	Welcome reception		Informal party		
18:15					
18:30					
18:45					
19:00		Conference dinner			
19:15					
19:30					
19:45					
20:00					
20:15					
20:30					
20:45					
21:00					

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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: www.eps-egas.org



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Practical Information



EGAS 47 will be held in the main building of the University of Latvia (Latvijas Universitāte) Raiņa Blvd. 19, **Riga**, Latvia.

Some facts about Riga

Riga was founded in 1201 by Albert, a German bishop. However, the territory was populated even earlier.

1282 – the city joined the Hanseatic League.

1510 – Riga became the first place in the world to decorate a Christmas tree.

1629 – German rule was replaced by Swedish rule, and Riga became the biggest city in the Swedish Kingdom.

1710 – Riga came under Russian rule, but the German influence was still present until the establishment of an independent Latvia.

1873 – Riga hosted the first National Song Festival.

The economic boom and rapid constructional developments at the beginning of the 20th century made Riga one of the most prominent Art Nouveau cities in world and one of the most prosperous in the Russian Empire.

On 18 November 1918, Latvia proclaimed its independence and stayed a free country until 1940 when it was occupied by the Soviet Army, which was soon replaced by the Nazi occupation, only to be conquered by the Soviets again at the end of the Second World War.

1991 – Latvia regained its independence from the Soviet Union.

1995 – the historic centre of Riga was included in the UNESCO World Heritage list.

2001 – Riga held a grandiose celebration in honour of its 800th anniversary.

2014 – Riga was named a European Capital of Culture.

See the map on the latter cover.

Organization of the Sessions

Registration will be opened in the lobby of the main building on Monday at 17.00 and Tuesday at 8.00.

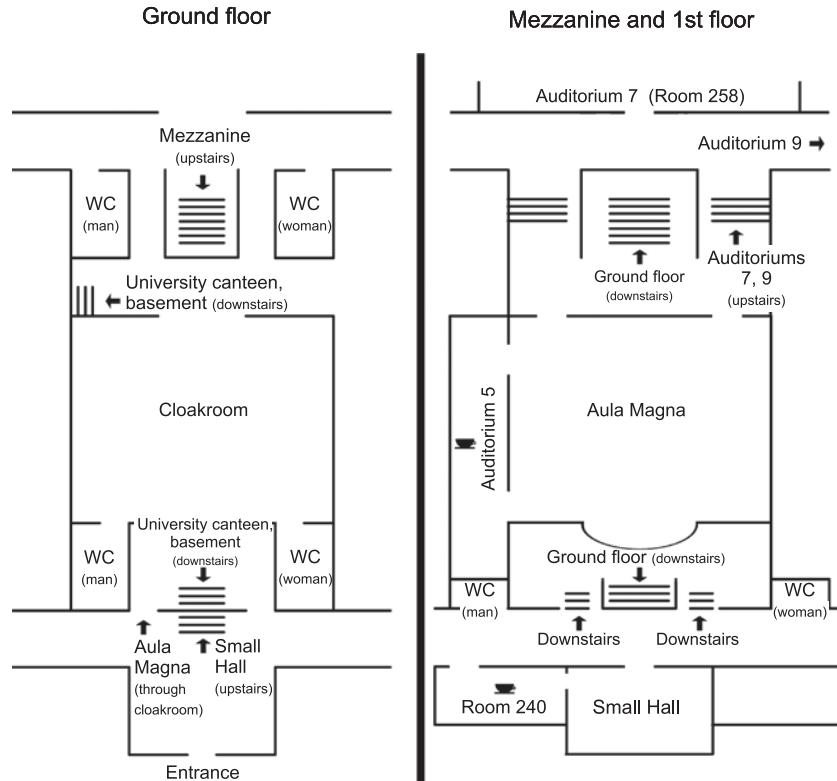
All plenaries and General Assembly will take place in Aula Magna, Welcome reception and Poster sessions in the Small Hall; Parallel sessions are held in Auditorium 7 (room 258) and Auditorium 9 (room 264). The signs will show the directions.

Posters could be displayed according to the schedule in the Small Hall from 12.00: on Tuesday posters P 1–P 55, on Thursday posters P 56–P 97. **Please do not forget to take off the posters after the sessions!**

Exhibitors will display equipment in the cloakroom (ground floor).

Coffee breaks will be served in Auditorium 5, next to Aula Magna, except one on July 16th at 15.45, which will be served in room 240 next to Small Hall.

Lunch will be served in the University canteen, in the basement.



Please follow the signs!

Social Programme

July 13th 18.00 – 20.30 Welcome reception at the UL main building, Raiņa Blvd. 19

July 14th 19.00 Conference dinner

Conference dinner is planned in the Bibliotēka No.1 Restaurant (in English "Library"; situated Tērbatas Str. No.2), which is one of the best contemporary restaurants in Latvia, located in the beautiful park – Vērmane Park. It is famous for the classical cuisine with the touch of the contemporary cuisine and wide range of Italian wines.
www.restoransbiblioteka.lv

The place is 3–10 minutes walking from the conference hotels and is around the corner from the University of Latvia. (See the map on the latter cover).

Please take the invitations with you: different colours of invitations on the table will show the food restrictions within the dinner menu.



Vērmane Park. Foto: Toms Grinbergs, University of Latvia Press centre

July 15th 14.30 Excursion to Rundale Palace www.rundale.net/en/

Buses will depart from the Opera building (Aspazijas Blvd. 3) just at 14.30. (See the map on the latter cover.)

Trip to the Rundale Palace includes visit to the Palace Museum and Park. Rundale Palace is one of the two major baroque palaces built for the Dukes of Courland. The palace was built in two periods, from 1736 until 1740 and from 1764 until 1768. It is situated 80 km from Riga.

The park of Rundale Palace is an essential part of the palace complex – the regular French style park with its rose garden. It has retained its original layout without any significant changes. The location map of Rundale Palace was drawn by Francesco Bartolomeo Rastrelli in 1735/1736. The selection of plants for the park is based upon the information obtained from the 18th century garden descriptions and books on Baroque gardens.

The visit will be followed by informal party with refreshments, wine and fingerfood at the Palace.



Rundale Palace. Foto: Vidaga Grinberga

General Information

Badge

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

Wireless

- Eduroam network (with your personal credentials);
- EGAS2015 (run an internet browser program and enter username: egas2015, password: Riga2015).

The contributions are identified by

PL for Plenary Lecture

PA for Parallel sessions

IT for Invited Talk

CT for Contributed Talk

P for posters

Home page

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Conference Program

MONDAY, July 13

17:00 – 19:00 Registration Open (lobby of the main building)

18:00 **Welcome reception**

Small Hall, Main building, Raiña Blvd. 19

TUESDAY, July 14

8:00 Registration Open

8:30 **Opening of the Conference** (Aula Magna)

8:45 – 10:15 Plenary session **PL1: International Year of Light**
(Aula Magna)

8:45 – 9:30 **EPS Invited Speaker, Sir M.Berry (PL-1)**
The singularities of light: intensity, phase, polarization

9:30 – 10:15 **J. M. Raimond (PL-2)**
Microwave Spectroscopy probes Dipole Blockade and van der Waals Forces in a cold Rydberg Gas

10:15 – 10:45 Coffee and tea break (Auditorium 5, next to Aula Magna)

10:45 – 12:15 Parallel sessions **PA1**

Auditorium 7 (Room 258)	Auditorium 9 (Room 264)
10:45 Andreas Mooser (CT-1) <i>The Magnetic Moments of the Proton and the Antiproton</i>	10:45 Eleonora Lorek (CT-5) <i>Probing ultra-fast nearfield dynamics of individual nano bowtie-antennas</i>
11:05 David Bresteanu (CT-2) <i>Intra-cavity photodetachment microscopy and the electron affinity of germanium</i>	11:05 Stefanos Carlström (CT-6) <i>Quantum Path Interferometry using Chirped High-order Harmonic Generation</i>
11:25 Minoru Tajima (CT-3) <i>Antihydrogen synthesis with lower energy antiprotons in the ASACUSA double-cusp trap</i>	11:25 Matthieu Genevriez (CT-7) <i>The two-photon detachment of O-</i>
11:45 Magdalena Zientkiewicz (CT-4) <i>High precision calculations for excited states of the hydrogen molecule</i>	11:45 Zhong-Kun Hu (CT-8) <i>Characterizing an ultra-high sensitivity atom interferometry gravimeter</i>

12:15 – 13:45	Lunch (University canteen, basement)
13:45 – 15:15	Plenary session PL2 Large facilities and ultrafast processes (Aula Magna)
13:45 – 14:30	M. Simon (PL-3) <i>Relaxation dynamics of isolated atoms and molecules in the tender x-ray domain (1-12 keV)</i>
14:35 – 14:55	Chang Chi Kwong (CT-9) <i>High repetition rate pulse trains emitted by optically thick scattering media</i>
14:55 – 15:15	Juris Ulmanis (CT-10) <i>Heteronuclear Efimov scenario in an ultracold Bose-Fermi mixture of ^{133}Cs and ^6Li</i>
15:15 – 15:45	Coffee and tea break (Auditorium 5, next to Aula Magna)
15:45 – 17:30	Poster session PO1 (Small Hall) Posters from P1-P55 Posters could be displayed in Small Hall on July 14th from 12:00! Please do not forget to take the posters off after the session.
19:00	Conference dinner Bibliotēka No. 1 Restaurant, Tērbatas Str. No. 2 (See the map on the latter cover.)

WEDNESDAY, July 15

8:30 – 10:00	Plenary session PL3 Theoretical atomic physics (Aula Magna)
8:30 – 9:15	M. Safranova (PL-4) <i>Search for New Physics with Atoms and Molecules</i>
9:15 – 10:00	Y. Silberberg (PL-5) <i>Quantum Walks in Photonic Lattices</i>
10:00 – 10:30	Coffee and tea break (Auditorium 5, next to Aula Magna)

10:30 – 12:00 Parallel sessions **PA2**

Auditorium 7 (Room 258)	Auditorium 9 (Room 264)
10:30 R. Moszynski (30 min) (IT-1) <i>Asymptotic physics with subradiant and superradiant states of ultracold molecules</i>	10:30 S. Willitsch (30 min) (IT-2) <i>(lecture sponsored by EPJ)</i> <i>Observation of forbidden infrared spectra in Coulomb-crystallized molecular ions: Towards precision measurements on single molecules</i>

11:00 James Almond (CT-11) <i>Towards a molecular MOT of YbF</i>	11:00 Mickey McDonald (CT-14) <i>Experiments with an ultracold molecular lattice clock: subradiance, forbidden transitions, and E1 / M1 / E2 photodissociation</i>
11:20 Eberhard Widmann (CT-12) <i>Progress towards in-beam hyperfine spectroscopy of antihydrogen</i>	11:20 Sven Mannervik (CT-15) <i>Storing keV negative ions for hours: Lifetime measurements in new time domains</i>
11:40 Jofre Pedregosa Gutierrez (CT-13) <i>Phase transitions of sympathetic cooling of HCl ions</i>	11:40 Joerg Holger (CT-16) <i>Linear polarization of x-ray transitions due to dielectronic recombination in highly charged ions</i>

12:00 – 13:30	Lunch (University canteen, basement)
14:30	Excursion to Rundale Palace (Buses will depart from the National Opera building (Aspazijas Blvd. 3) just at 14.30. (See the map on the latter cover.)
18:00	Informal party with refreshments at Rundale Palace

THURSDAY, July 16

8:30 – 10:00	Plenary session PL4 Cold atoms, ions and quantum gases (Aula Magna)
8:30 – 9:15	F. Ferlaino (PL-6) <i>The Fascination of Lanthanides as Ultracold Quantum Matter</i>
9:15 – 10:00	S. Schlemmer (PL-7) <i>Spectroscopy of Cold Molecular Ions</i>
10:00 – 10:30	Coffee and tea break (Auditorium 5, next to Aula Magna)

10:30 – 12:15 Parallel sessions **PA3**

Auditorium 7 (Room 258)	Auditorium 9 (Room 264)
10:30 T. Schätz (IT-3) <i>Decoherence-Assisted Spectroscopy: Demonstrated with a Single Mg⁺ Ion</i>	10:30 D. Bloch (IT-5) <i>Atom in front of a hot surface: Temperature-dependence of the Casimir-Polder interaction and thermal energy transfer</i>
11:00 S. Maniscalco (IT-4) <i>Thermodynamic meaning and power of non-Markovianity</i>	11:00 Peter Molony (CT-19) <i>Creation of ⁸⁷RbCs molecules in the rovibrational ground state</i>

11:30 Alessia Burchianti (CT-17) <i>Pushing a Fermi superfluid through a thin optical barrier: from coherent tunneling to phase slips</i>	11:20 Daniel Barredo (CT-20) <i>Engineering spin Hamiltonians with 2D arrays of single Rydberg atoms</i>
11:50 Mohamed Shahid Cherukattil (CT-18) <i>Atom-Chip for Quantum Control</i>	11:40 Peter Edmunds (CT-21) <i>Trapping ultracold argon atoms</i>

12:15 – 12:45 **EGAS General Assembly** (Aula Magna)

12:45 – 14:15 Lunch (University canteen, basement)

14:15 – 15:45 Parallel sessions **PA4**

Auditorium 7 (Room 258)	Auditorium 9 (Room 264)
14:15 Sortais Yvan (CT-22) <i>Measurement of the coherent optical response of a cold atomic ensemble in the presence of resonant dipole-dipole interactions</i>	14:15 Bess Fang (CT-26) <i>Continuous Cold-atom Gyroscope with 11 cm² Sagnac Area at nrad/s Stability</i>
14:35 Piergiacomo Zucconi Galli Fonseca (CT-23) <i>Cavity cooling a single charged levitated nanosphere</i>	14:35 Małgorzata Kasprzak (CT-27) <i>Cesium atomic magnetometers in experiment searching for a neutron electric dipole moment</i>
14:55 Jonas Rodewald (CT-24) <i>A time domain matter-wave interferometer for testing the mass limits of quantum mechanics</i>	14:55 James Keaveney (CT-28) <i>Faraday filtering in atomic vapours: from Hamiltonian to application</i>
15:15 Hendrik Ulbricht (CT-25) <i>Non-interferometric tests of Macroscopic Quantum Superposition</i>	15:15 Simone Colombo (CT-29) <i>Anharmonic magnetic response of magnetic nanoparticles detected by atomic rf magnetometry</i>

15:45 – 16:15 Coffee and tea break (Room 240 – next to Small Hall)

16:15 – 18:00 Poster session **PO2** (Small Hall)

Posters from **P56-P97**

**Posters could be displayed in Small Hall on July 16th from 12:00!
Please do not forget to take the posters off after the session.**

FRIDAY, July 17

Fundamental physics

9:00 – 10:30 Mini Symposium **M1** (Aula Magna)

9:00 – 9:45 **D. Budker (PL-8)**

Fundamental symmetries and the Dark Sector

9:45 – 10:30 **G. Tino (PL-9)**

Precision measurements in gravitational physics with cold atom interferometry

10:30 – 11:00 Coffee and tea break (Auditorium 5, next to Aula Magna)

11:00 – 12:30 Mini Symposium **M2** (Aula Magna)

11:00 – 11:45 **M. Kozlov (PL-10)**

Using atoms and molecules to search for variation of fundamental constants

11:50 – 12:10 **Remy Notermans (CT-30)**

Pushing QED to the limit in the helium atom

12:10 – 12:30 **Lisa Schmöger (CT-31)**

Coulomb crystallization of highly charged ions

12:30 – 12:45 Closing, Aula Magna

12:45 Lunch (University canteen, basement)

Poster session P01

TUESDAY, July 14, 15:45 – 17:30, Small Hall

P-1	Realization of radio-frequency assisted Förster resonances in an ensemble of a few cold Rb Rydberg atoms	Christina Andreeva
P-2	Optical flux lattice using multi-frequency radiation	Tomas Andrijauskas
P-3	Dual-species BEC source: First step towards matter neutrality test with atom interferometry	Decamps Boris
P-4	Hybrid dynamics of an optical field and a Bose-Einstein condensation	Guangjiong Dong
P-5	Borromean three-body FRET in frozen Rydberg gases	Riccardo Faoro
P-6	Interferometric laser cooling of atomic rubidium	Tim Freegarde
P-7	Progress towards the realization of a quantum degenerate dipolar gas of dysprosium atoms	Carlo Gabbanini
P-8	Coherent light scattering from a disordered ensemble of cold atoms	Alexey Kuraptsev
P-9	Proposal for laser-cooling of rare-earth ions	Maxence Lepers
P-10	Towards a BEC in a time-averaged adiabatic potential ring waveguide	Hector Mas Peris
P-11	Dense and cold atomic beam delivered by a 2DMOT repumped and channelled by a Laguerre-Gaussian laser beam	Laurence Pruvost
P-12	Spinor quantum gases with narrow-line control	Martin Robert-de-Saint-Vincent
P-13	Rotational State Cooling of Trapped Polyatomic Molecules	Martin Zeppenfeld
P-14	Description of the evolution of Rydberg systems and interaction of light with multi-level atoms using Floquet technique	Dmitry Efimov
P-15	Generation of Schrödinger cat states in a NMR quadrupolar system	Ruben Auccaise
P-16	Pair creation and annihilation with atoms and channeling nuclei	Nikolay Belov
P-17	Analysis of the spatial dependence of laser-induced fluorescence for alkali metal vapours in an intense laser beam	Andris Berzins
P-18	Designed of a pulsed negative ions source	Jānis Blahins
P-19	Nonlinear Magneto-Optical Rotation in Rubidium Vapor Excited to $6^2P_{1/2}$ State	Laima Bušaite
P-20	Laser-gamma-nuclear spectroscopy of multicharged ions: "Shake-up" and co-operative excitation effects, New data	Vasily Buyadzhi

P-21	Electron Spectroscopy of four-photon-ionized strontium in the 715-737 nm wavelength range	Samuel Cohen
P-22	Two-photon Stark Spectroscopy and Photoionization Microscopy on the Mg atom	Samuel Cohen
P-23	Test of the universality of free fall with atoms in different spin Orientations	Xiaobing Deng
P-24	High precision spectroscopy of single $^{138}\text{Ba}^+$ ions	Elwin Dijck
P-25	High-resolution x-ray spectroscopy to probe quantum dynamics in collisions of $\text{Ar}^{17+,18+}$ ions with atoms and solids	Dominique Vernhet
P-26	Imaging magnetic fields by fluorescence-detected magnetic resonance in polarized atoms	Ilja Fescenko
P-27	Relativistic two-photon decay rates of hydrogenic atoms with the Lagrange-mesh method	Livio Filippin
P-28	Isotope shift parameters in Al I for the $3p - 4s$ and $3p - 3d$ lines	Livio Filippin
P-29	Atomic and Nuclear quantum optics: Multiphoton and autoionization resonances in a strong DC electric and laser field	Aleksander Glushkov
P-30	Search for the Permanent Electric Dipole Moment of Xenon	Olivier Grasdijk
P-31	Quadratic-linear B -spline grid for studying Ps-atom interactions in cavities	Gleb Gribakin
P-32	An accurate free spin precession cesium magnetometer	Zoran Grujic
P-33	Double ionization of the hydrogen sulfide molecule by electron impact: influence of the target orientation on the fivefold differential cross sections	Noura Imadouchene
P-34	Spectroscopic measurements of free particles by matter-wave interferometry	Fiedler Johannes
P-35	Fast transport and accumulation of cold ion clouds in a multi-zone RF-trap	Marius Romuald Kamsap
P-36	Precision calculation of the spectra of Mg-like ions	Elena Konovalova
P-37	Radiative Lifetimes and Transition Probabilities in Rh I	Engström Lars
P-38	Lifetimes and Transition Probabilities for High-Lying Levels in Astrophysically Interesting Atoms Using Multi-Photon Excitation	Engström Lars
P-39	EIT resonance inverted in magnetic field by influence of the alignment effect	Claude Leroy
P-40	Study of atomic transitions of ^{39}K isotope on D_1 line in strong magnetic fields	Claude Leroy
P-41	Study of Atomic Transitions of Rb D_2 line in Strong Transverse Magnetic Fields by an Optical Half-Wavelength Cell	Claude Leroy

P-42	The Radioactive Francium Magneto-Optical Trap in Legnaro: search for new lines in an isotopic series	Emilio Mariotti
P-43	Double impulse effects during a collision of ions and diatomic molecules	Nakamura Masato
P-44	A compact 0.74 T room temperature EBIT	Peter Micke
P-45	H ₂ O double ionization induced by electron impact	Dahbia Oubaziz
P-46	Theoretical study of hyperfine structure of ground state in neutral Carbon	Pavel Rynkun
P-47	Stark splitting effects for Er ³⁺ in Er ₂ O ₃	Pavel Rynkun
P-48	Towards a High Sensitivity Atom Accelerometer for Exploring Physics Beyond the Standard Model	Dylan Sabulsky
P-49	Reanalysis and semi-empirical predictions of the hyperfine structure of ¹²³ Sb I	Bouazza Safa
P-50	Calculation of Lamb shift for states with $j = 1/2$	Daniel Simsa
P-51	Measurement of muonium hyperfine splitting at J-PARC	Kazuo Tanaka
P-52	Sensitivity of tunneling-rotational transitions in ethylene glycol to the variation of electron-to-proton mass ratio	Anna Viatkina
P-53	Nuclear polarizability effects in muonic deuterium	Albert Wienczek
P-54	Spin Polarisation Exchange Scattering from Nickel and Iron	Samir Yousif Al-Mulla
P-55	Deceleration, cooling and trapping of heavy diatomic molecules	Artem Zapara

Poster session PO2,

THURSDAY, July 16, 16:15 – 18:00, Small Hall

P-56	Optical frequency measurement of Rb 5S-5P transition with a frequency comb	Janis Alnis
P-57	Investigation of Hg resonance 184.9 nm line in a capillary low-pressure discharge	Janis Alnis
P-58	Magneto-optical switch based on high-contrast electromagnetically induced absorption resonance	Christina Andreeva
P-59	High resolution spectroscopy of Cs atomic layers of nanometric and micrometric thickness	Christina Andreeva
P-60	Identifications of EUV transitions in promethium-like Pt, Ir, Os, and Re	Hendrik Bekker
P-61	Identifications of optical transitions in Ir ¹⁷⁺ for investigations of variations of fundamental constants	Hendrik Bekker

P-62	The (2) $^1\Pi$ state in KCs: Fourier-transform spectroscopy and potential construction	Inese Birzniece
P-63	Towards atomic anion laser cooling	Giovanni Cerchiari
P-64	The effect of the isomeric state ^{229m}Th on the observed hyperfine structure pattern	Jerzy Dembczyński
P-65	Depletion spectroscopy and internal-state thermometry of buffer-gas-cooled polar molecules	Thomas Gantner
P-66	The Rayleigh and Raman scattering of light on metastable levels of diatomics: An advanced method and new data	Aleksander Glushkov
P-67	Absolute absorption and dispersion in dense alkali-metal thermal vapours	Ifan Hughes
P-68	Strontium optical lattice clocks	Lodewck Jérôme
P-69	Study of (3) $^1\Pi$ and (5) $^1\Sigma^+$ states of RbCs based on (3) $^1\Pi \rightarrow (A - b)$ and (5) $^1\Sigma^+ \rightarrow (A - b)$ Fourier transform spectra analysis	Artis Kruzins
P-70	Fourier transform spectroscopy and deperturbation analysis of the spin-orbit coupled $A^1\Sigma^+$ and $b^3\Pi$ states in RbCs	Artis Kruzins
P-71	Alkali atoms in a strong transverse magnetic field: "guiding" transitions foretell behavior of all transitions of D ₁ line	Aram Papoyan
P-72	Selective reflection from dense Rb, molecular vapor	Aram Papoyan
P-73	Precision isotope shift measurements of calcium ions using photon recoil spectroscopy	Chunyan Shi
P-74	Energies and radiative properties of the $A^1\Sigma^+ - b^3\Pi$ complex in KRp: towards optimal ground-state transfer ultracold molecules	Andrey Stolyarov
P-75	Direct deperturbation analysis of the $A^1\Sigma^+ \sim b^3\Pi$ complex in LiCs based on polarization labelling spectroscopy and <i>ab initio</i> calculation	Andrey Stolyarov
P-76	High resolution study and deperturbation analysis of the $A^1\Sigma^+ - b^3\Pi$ complex in KRp	Maris Tamanis
P-77	Progress in the classification of spectral lines of Praseodymium	Rizwan Ur Rehman
P-78	Optical lattice atomic clocks as a reference for spectroscopy	Michał Zawada
P-79	In-house XAS measurements using a von Hamos curved crystal spectrometer and an X-ray tube	Faisal Zeeshan
P-80	Single-electron manipulation with resonant impurity states in silicon nanoelectronic circuits	Jevgenijs Klocans
P-81	The photodetachment cross section of H: an animated-crossed-beam measurement	Matthieu Genevriéz

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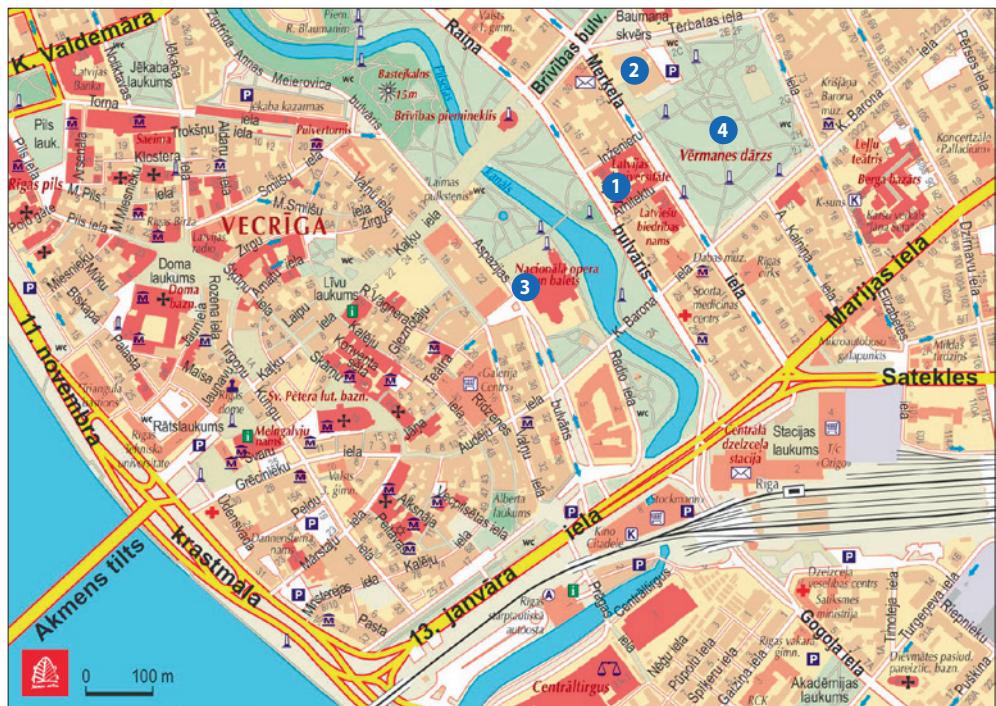
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