

XXXth International Colloquium on Group Theoretical Methods in Physics



Programme

14-18 July 2014

Ghent University - Belgium



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Sponsors

- International Union of Pure and Applied Physics (IUPAP): "To secure IUPAP sponsorship, the organisers have provided assurance that the 30th ICGTMP will be conducted in accordance with IUPAP principles as stated in the IUPAP resolution passed by the General Assembly in 2008. In particular, no bona fide scientist will be excluded from participation on the grounds of national origin, nationality, or political considerations unrelated to science."

Group30 receives formal IUPAP endorsement without financial sponsorship.

- International Solvay Institutes
- International Association of Mathematical Physics (IAMP)
- Clay Mathematics Institute (CMI)
- Elsevier
- Springer Birkhäuser
- American Institute of Physics (AIP Publishing)
- Foundation Compositio Mathematica
- National Science Foundation US
- The Research Foundation - Flanders (FWO)
- Le Fonds de la Recherche Scientifique (FNRS)
- Ghent University, Faculty of Sciences
- Ghent University, Clifford Research Group, Faculty of Engineering and Architecture



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Local Organizers

Fred Brackx, Hennie De Schepper, Joris Van der Jeugt (Chair)

Venue

All scientific activities take place in the university building “Joseph Plateau”, Joseph Plateaustraat 22, 9000 Gent.

The plenary talks take place in **Lecture Room A (ground floor, left wing)**.

The parallel sessions will take place in **Lecture Rooms D, E, F, G, H, I (first floor)**.

Joseph Antoine Ferdinand Plateau (1801-1883), Belgian physicist, professor of experimental physics at Ghent University. Inventor of the phenakistoscope (an early animation device that used a spinning disk of sequential images and the persistence of vision principle to create an illusion of motion). He studied the phenomena of capillary action and surface tension and formulated the laws which describe the structures formed by soap films. The mathematical problem of existence of a minimal surface with a given boundary is named after him.

The Plateau building dates back to 1889 and housed the Faculty of Sciences. It was designed by architect Adolphe Pauli (1820-1895), professor at the ‘Ecoles Spéciales du Génie Civil et des Arts et Manufactures’, the then education of engineers, which was incorporated in the Faculty of Sciences until 1957 when an independent Faculty of Applied Sciences (nowadays Faculty of Engineering and Architecture) was founded. Adolphe Pauli was a disciple of architect Louis Roelandt, the designer of the university’s great hall “Aula Academica” in the Voldersstraat (see The Wigner Medal and Weyl Prize Ceremony).

Registration and Conference Office

J. Plateau Building, **meeting room Simon Stevin (ground floor, left wing, opposite Lecture Room A)**.

Opening hours:

- Sunday 16:00-20:00
- Monday, Tuesday and Thursday 8:00-12:00 and 13:30-16:30
- Wednesday and Friday 8:00-12:00.

Telephone: +32 9 264 37 34

Mobile: +32 491 13 21 60 (in case of urgency)

Coffee breaks

Coffee / tea and biscuits are served daily from Monday 14 till Friday 18 during the breaks in the morning and afternoon sessions in the foyer 1st floor.

Computers and WIFI

Computers are available in **PC-rooms E and F (first floor)**.

PC-rooms

Participants have access to the PC's in **PC-rooms E and F (first floor)**. Just switch on the PC, enter for account "UGentGuest" and enter a blank password.

Eduroam

You can have access to the internet with your mobile device or notebook by connecting to the eduroam wifi network. At UGent you follow your university or institution's logon procedure.

UGENTGUEST wifi

If your university or institution is not participating in eduroam you can access the UGentGuest wifi network by the following instructions.

Make a wireless connection with "UGentGuest". If you have set up to request an IP address automatically, you will receive an IP address starting with 193.190.8x.

Now you are connected, but not yet authenticated. You should start a web browser and you will be redirected to a logon screen. Enter the username and password that you receive at the first day of the colloquium. After correct authentication you can use the Internet connection.

Your connection to this wireless LAN is not encrypted. To protect your personal data, please use encrypted connections like https, imaps, ssh etc. or a VPN client. You are not allowed to pass on the login information to others.

Group photo

Wednesday 16 July at 10:25 on the stairs in front of the J. Plateau Building.

Book exhibition

Stands in the foyer 1st floor:

- AIP (American Institute of Physics, Melissa Patterson)
- Elsevier (Valéry Teng-Broug)
- Springer-Birkhäuser (Thomas Hempfling)

Welcome drink

A welcome drink is offered on Monday 14 July, from 18:30 till 20:00, in the *Pacificatiezaal* of Town Hall, Botermarkt 1, 9000 Gent. Welcome speech by Alderman Christophe Peeters. (Invitation in your conference bag.)

The peace treaty “Pacification of Ghent”, signed in this historic location on 8 November 1576, forged an alliance of the provinces of the Habsburg Netherlands, the so-called General Union.

The Wigner Medal and Weyl Prize Ceremony

The traditional presentation of the Wigner Medal and the Hermann Weyl Prize is scheduled on Wednesday 16 July at 18:30 in the Aula of Ghent University, Voldersstraat 9, 9000 Gent. (Invitation and programme in your conference bag.)

Ghent University was opened on 9 October 1817. The original four faculties consisted of Humanities (Letters), Law, Medicine and Science, and the language of instruction was Latin. The university was founded by King William I as part of a policy to stem the intellectual and academic lag in the southern part of the United Kingdom of the Netherlands, later to become Belgium.

The Aula Academica was inaugurated on 3 October 1826. This “University Palace” was a present of the City of Ghent and testified of the splendour of the town and its university.

Guided tour — Boat trip

Guided tour in the historic centre of Ghent on Wednesday 16 July, from 14:00 till 16:00.

Venue: the new City Pavilion, located next to Town Hall and at the foot of the Belfry.

Followed by a 40 minute boat trip on the canals of the inner city. A boat trip ticket is needed; it is available, free of charges, at the Conference Office, **only on Sunday 13 and Monday 14 July!**

Banquet

The conference banquet is scheduled on Thursday 17 July at 19:00 in the *Brasserie HA’ (Handelsbeurs)*, Kouter 29 , 9000 Gent. You should present your invitation card (see your conference bag).

The oldest part of the “Handelsbeurs” was built in 1738-1739. It housed the Ghent Stock Exchange. After restoration it was turned into a concert hall.

Breakfast

Participants staying in the student rooms of Ghent University can have breakfast at the student restaurant “De Brug”, Sint-Pietersnieuwstraat 45, 9000 Gent. (see “Lunch” for the location.) This is open for breakfast from 8:00 to 10:00. You will receive breakfast tickets when checking in at the Guest House.

Lunch

Participants can have a (modest but healthy) lunch, from Monday 14 till Friday 18, at the student restaurant “De Brug”, Sint-Pietersnieuwstraat 45, 9000 Gent. (When leaving the Plateau Building, take right, pass Magneelstraat and continue till the Sint-Pietersnieuwstraat; the student restaurant is situated to the right of the parking place in front of you.)

Opening hours: 11:45 - 14:00

Cash payment is **not** possible, you should use the lunch tickets to be found in your conference bag.

Lunch is also possible, at your own expenses, at the following places in the vicinity of the Plateau Building.

In the street of the student restaurant, Sint-Pietersnieuwstraat, there are also the following possibilities:

Thalia, Sint-Pietersnieuwstraat 138, <http://www.eethuis-thalia.be>: quiche, salads, pasta

Le Pain Total, Sint-Pietersnieuwstraat 218, <http://www.lepaintotal.be>: snacks, veggie, sandwiches

La Perla, Sint-Pietersnieuwstraat 212: Italian cuisine

In the opposite direction, when leaving the Plateau Building, take left and go downwards to ultimately Kortrijksepoortstraat – Nederkouter. At the corner left you find

’t Hoekske, Kortrijksepoortstraat 1, <http://www.snackbarthoekske.be>: traditional snacks, sandwiches, open daily 24/24

If you cross the street and continue in the direction of the canal, then at your left you find

Potatolicious, Verlorenkost 5, <http://potatolicious.be>: healthy food, salads, filled jacket potatoes, excellent coffees and teas

If, on the contrary, you take right, then you enter Nederkouter street, with a number of possibilities:

Pane e Vino, Nederkouter 9, <http://www.pane-vino.eu>: genuine Italian restaurant

Pasta Fresca, Nederkouter 37, <http://www.pasta-fresca-gent.be>: pasta

Greenway, Nederkouter 42, <http://greenway.be>: vegetarian food

Panorama, Nederkouter 71, <http://www.panoramabar.be>: coffee shop, bar

Wasbar, Nederkouter 109, <http://www.wasbar.be>: snacks, coffee /tea (and you can do your laundry)

Caffè Caffee, Nederkouter 129, <http://www.caffecaffee.be>: breakfast, lunch, snacks, salads, sandwiches, coffee / tea

Wickerhoff, Nederkouter 135, <http://www.wickerhoff.be>: traditional cuisine (only on Wednesday, Thursday and Friday)

If, at the end of the Plateaustraat, you take sharply left and go uphill, this is Sint-Kwintensberg street, you find in this direction

Bluesette, Sint-Kwintensberg 85, <http://www.eetcafebluesette.be>: traditional snacks

And further on:

Firenze, Sint-Amandstraat 1, <http://www.restaurantfirenze.be>: genuine Italian restaurant

Petrus, Sint-Amandstraat 15: traditional snacks, vegetarian

Orientali, Sint-Amandstraat 19: thai kitchen

Paul's Boutique, Sint-Amandstraat 48, beefburger, pasta

Programme for accompanying persons

Daily trips will be arranged during the colloquium days, guided by a local. Accompanying persons who want to join meet at 10:00h near the registration office. Tentative programme:

- Monday: visit of some monuments in medieval Ghent (Saint Bavo's Cathedral with "The Mystic Lamb", the Belfry tower, the Castle of the Counts).
- Tuesday: STAM (Ghent City Museum), Saint Peter's Church and Abbey.
- Wednesday: Museum of Fine Arts (morning). In the afternoon all accompanying persons can join the excursion and boat trip for all participants.
- Thursday: excursion to Bruges.
- Friday: the Friday market, visit of a monastery (Caemersklooster) and Patershol (an authentic medieval district).

Panel discussion

Recent advances and future challenges in group theoretical methods in physics

Wednesday 16 July from 11:30 till 12:30, lecture room D (1st floor).

Moderator: W. Miller Jr

Special session honouring the work of Allan Solomon

Wednesday 16 July from 09:00 till 10:00, lecture room D.

Allan Solomon, honorary member of the Standing Committee of "International Colloquium of Group Theoretical Methods in Physics", passed away in April 2013. Allan held Emeritus Professorships at the Open University (UK) and the University of Paris VI (France). He was a full member of the Standing Committee from 1986 until December 2008, after which he became an honorary member. He was among the most active contributors to the organization of our Colloquia, and his wisdom and wit were universally appreciated.

He will be missed and remembered by many, and for a very long time.

Programme: Poster session

Noud Aldenhoven	Matrix valued orthogonal polynomials related to the quantum analogue of $(SU(2)+SU(2), \text{diag})$
Erik Diaz-Bautista	Supersymmetric harmonic oscillator and nonlinear coherent states
Bruno Gonçalves	The exact Foldy-Wouthuysen transformation for a Dirac theory with the complete set of CPT/Lorentz violating terms
Lenka Háková	Generalization of Weyl group orbit functions using matrix immanants
Elchin Jafarov	$su(2)$ Krawtchouk oscillator model under the CP deformed symmetry
Seiichi Kuwata	Phase amplitude conformal symmetry in Fourier transforms
Georgios Papamikos	Darboux transformation with Dihedral reduction group
Regina Ricotta	Quantum Confinement in Hydrogen Bond
Mihaela B Vajiac	Multihyperbolic Analysis
Mario Van Raemdonck	Exploring the phase diagram of the $p_x + ip_y$ pairing Hamiltonian by linking the eigenstates to associated bosonic states.

Posters are on display in the foyer and the corridor at the first floor.

The poster session is scheduled on Tuesday, 15 July, during the coffee break from 09:55 till 10:35.

Poster should be removed Friday 18 at noon.

Programme: Plenary lectures and overview

Sunday, 13 July 2014

16:00-20:00 *Registration at the Conference Office*

Monday, 14 July 2014

08:00-09:00 *Registration at the Conference Office*
09:00-09:10 *Opening (lecture room A, ground floor)*
09:10-10:05 **Luc Vinet:** The Bannai-Ito algebra and some applications
10:05-10:35 *Coffee break*
10:35-11:30 **Gitta Kutyniok:** α -Molecules: Wavelets, Shearlets, and beyond
11:30-12:25 **Christoph Schweigert:** Surface defects and symmetries
12:25-14:00 *Lunch break*
14:00-15:30 Parallel sessions
15:30-16:00 *Coffee break*
16:00-18:00 Parallel sessions

18:30-20:00 *Welcome drink in the Town Hall of Ghent (Botermarkt, Gent)*

Tuesday, 15 July 2014

09:00-09:55 **Alberto De Sole:** Poisson vertex algebras and Hamiltonian equations
09:55-10:35 *Coffee break + Poster session*
10:35-11:30 **Rui Loja Fernandes:** Lie theory beyond Lie groups
11:30-12:25 **Matthias Christandl:** Entanglement, Entropy and Representation Theory
12:25-14:00 *Lunch break*
14:00-15:30 Parallel sessions
15:30-16:00 *Coffee break*
16:00-18:00 Parallel sessions

Wednesday, 16 July 2014

09:00-10:00 Parallel sessions & Special session honouring the work of Allan Solomon
10:00-10:25 *Coffee break*
10:25-10:30 *Group photo*
10:30-11:30 Parallel sessions
11:30-12:30 Panel discussion: recent advances and future challenges in group theoretical methods in physics
12:30-14:00 *Lunch break*
14:00-17:00 *Guided tours*

18:30-20:00 *Wigner Medal and Weyl Prize Ceremony (Aula of Ghent University, Voldersstraat 9, Gent)*
 Reception

Thursday, 17 July 2014

09:00-09:55 **Yuji Tachikawa:** Comments on supersymmetric quantum field theories
09:55-10:35 *Coffee break*
10:35-11:30 **Joshua Zak:** Symmetric coordinates in solids. Magnetic Bloch oscillations
11:30-12:25 **Amiram Leviatan:** Partial and quasi dynamical symmetries in quantum many-body systems
12:25-14:00 *Lunch break*
14:00-15:30 Parallel sessions
15:30-16:00 *Coffee break*
16:00-18:00 Parallel sessions

19:00-22:30 *Conference Banquet (Handelsbeurs, Kouter 29, Gent)*

Friday, 18 July 2014

09:00-09:55 **Karl-Hermann Neeb:** Reflection positivity and unitary representations of Lie groups
09:55-10:35 *Coffee break*
10:35-11:30 **François Gay-Balmaz:** Group theoretical methods in liquid crystal dynamics
11:30-12:25 **Nicolai Reshetikhin:** Integrable boundary conditions and corresponding q -Knizhnik-Zamolodchikov equation
12:25-14:00 *Lunch break*
14:00-15:30 Parallel sessions
15:30-16:00 *Coffee break*
16:00-18:00 Parallel sessions

Programme: Parallel sessions**Monday 14 July**

Room	Lecture room D	Lecture room E	Lecture room F
Topic	Quantum systems and quantum mechanics	Lie groups, Lie superalgebras, representation theory	Superintegrable and exact solvable systems, special functions, Lie symmetries
14:00 - 14:25	Gerald A. GOLDIN Generalized hydrodynamical variables for quantum mechanics, and the group of nonlinear gauge transformations	Francesco TOPPAN Four types of superconformal mechanics: D-module reps and invariant actions	Willard MILLER JR The theory of contractions of 2D 2nd order quantum superintegrable systems
14:30 - 14:55	Hendrik GRUNDLING Crossed products of C^* -algebras for singular actions	Zhanna KUZNETSOVA N-extended Galilei superconformal algebras and their representations.	Sarah POST The classification of superintegrable systems and contractions of quadratic algebras
15:00 - 15:25	Giovanni RASTELLI Second-order symmetry operators and separation of variables for Dirac equation with external fields on two-dimensional spin manifolds	Patrick MOYLAN Localization and q-deformations of Lie algebras and superalgebras	Claudia CHANU Extensions of natural Hamiltonians
15:30 - 16:00	Coffee Break		
Topic	Quantum systems and quantum mechanics	Lie groups, Lie superalgebras, representation theory	Superintegrable and exact solvable systems, special functions, Lie symmetries
16:00 - 16:25	Inge Svein HELLAND The quantum formulation derived from assumptions of epistemic processes.	Vladimir DOBREV Invariant Differential Operators for Non-Compact Lie Algebras Parabolically Related to Conformal Lie Algebras	Javier NEGRO Superintegrable anisotropic oscillators on two-dimensional spheres and hyperboloids
16:30 - 16:55	Giuseppe NISTICO A Group Theoretical approach to Quantum Theory of Interaction	Naruhiko AIZAWA Representations of conformal Galilei algebra with integer spin and an application	Christiane QUESNE Ladder operators for solvable potentials connected with exceptional orthogonal polynomials
17:00 - 17:25	Seckin KURKCUOGLU Constructing the Quantum Hall System on the Grassmannians $Gr_2(C^N)$	Ehud Moshe BARUCH Strong contraction of the Discrete Series representations of $SU(1,1)$ via the Kirillov model	Ian MARQUETTE New families of superintegrable systems from k-step rational extensions, polynomial algebras and degeneracies
17:30 - 17:55	Stephen LOW Maximal quantum mechanical symmetry: Projective representations of the inhomogeneous symplectic group	Matvei LIBINE Feynman Diagrams, Representations of $U(2,2)$ and Quaternionic Analysis	George POGOSYAN Superintegrable Systems on the Three-Dimensional Hyperboloids

Monday 14 July

Room	Lecture room G	Lecture room H	Lecture room I
Topic	Group theory in quantum information theory and quantum computation	String theory, quantum gravity and conformal field theory	Geometric mechanics and symmetry
14:00 - 14:25	Hubert DE GUISE Landscape symmetries in three-photon coincidence landscapes	Nikolai GROMOV Low and Higher Energy Limits of Electroweak Model as Contraction of its Gauge Group	Madeleine JOTZ LEAN Dorfman connections and Courant algebroids
14:30 - 14:55	Ulrich SEYFARTH Structure of the sets of mutually unbiased bases with cyclic symmetry	Anton ZEITLIN Beltrami-Courant Differentials and Homotopy Gerstenhaber algebras	Jan-Willem VAN HOLTEN Gauge-covariant extensions of Killing tensors and conservation laws
15:00 - 15:25	Vladimir GERDT On description of the orbit space of unitary actions for mixed quantum states	Fumihiko SUGINO Spontaneous supersymmetry breaking and instanton sum in 2D type IIA superstring theory	Manuel DE LEÓN A Hamilton-Jacobi theory for Classical Field Theories: finite and infinite dimensional settings
15:30 - 16:00	Coffee Break		
Topic	Statistical models, exact solutions	Hopf algebras and quantum groups	Integrable models and related topics
16:00 - 16:25	Jorgen RASMUSSEN Exactly solvable model of critical dense polymers	Jun MURAKAMI Logarithmic knot invariants coming from the restricted quantum groups	Tudor RATIU Lagrangian reductions and integrable systems in condensed matter
16:30 - 16:55	Alexi MORIN-DUCHESNE Integrability in the dimer model	Alberto HERNÁNDEZ Tensor Powers of Galois Coverings	Jon LINKS Molecular fraction calculation for an atomic-molecular Bose-Einstein condensate model
17:00 - 17:25	Yvan SAINT-AUBIN Indecomposable representations of Temperley-Lieb algebras and their role in statistical physics	Wei WANG On the Hopf algebra structures of generalized Radford's bi-products	Inna LUKYANENKO On the boundaries of quantum integrability for the spin-1/2 Richardson-Gaudin system
17:30 - 17:55		Bojana FEMIC Villamayor-Zelinsky sequence for braided finite tensor categories	Stijn DE BAERDEMACKER Integrable Dicke and Jaynes-Cummings models, and extensions

Tuesday 15 July

Room	Lecture room D	Lecture room E	Lecture room F
Topic	Quantum systems and quantum mechanics	Lie groups, Lie superalgebras, representation theory	Superintegrable and exact solvable systems, special functions, Lie symmetries
14:00 - 14:25	Jean Pierre GAZEAU Covariant integral quantizations	Andrew DOUGLAS Levi decomposable algebras in the classical Lie algebras	Jiri HRIVNAK Generalized Trigonometric Transforms of affine Weyl Groups
14:30 - 14:55	Piotr KIELANOWSKI Bethe-Salpeter equation for unstable states	Libor SNOBL Classification and Identification of Lie Algebras	Piergiulio TEMPESTA Formal Groups, Number Theory and Entropies
15:00 - 15:25	Véronique HUSSIN Entanglement created with generalized squeezed coherent states through a beam splitter	Kishor Chandra PATI Affine Kac-Moody Symmetric spaces associated with untwisted Kac-Moody algebras	Giuseppe GAETA Twisted symmetries of differential equations
15:30 - 16:00	Coffee Break		
Topic	Quantum systems and quantum mechanics	Lie groups, Lie superalgebras, representation theory	Superintegrable and exact solvable systems, special functions, Lie symmetries
16:00 - 16:25	Rodrigo FRESNEDA Some examples of covariant integral quantization	Phillip ISAAC Characteristic identities for Lie (super)algebras	Francis VALIQUETTE Group foliation of finite difference equations
16:30 - 16:55	Zouhair MOUAYN Coherent states quantization and formulae for the Berezin transform.	Ian MUSSON Shapovalov elements for basic simple Lie superalgebras.	Natig ATAKISHIYEV On the raising and lowering difference operators for eigenvectors of the finite Fourier transform
17:00 - 17:25	David J. FERNÁNDEZ Painleve IV coherent states	Elena POLETAEVA On Kostant's theorem for the Lie superalgebra $Q(n)$	Yousuke OHYAMA Meromorphic solutions to the q-Painlevé equations around the origin
17:30 - 17:55	Ci LEI Bifractional coherent states	Kevin COULEMBIER Homological properties of category O	Aleksander STRASBURGER Hermite polynomials and representations of the unitary group

Tuesday 5 July

Room	Lecture room G	Lecture room H	Lecture room I
Topic	Group theory in quantum information theory and quantum computation	Hopf algebras and quantum groups	Geometric mechanics and symmetry
14:00 - 14:25	Jiri TOLAR Finite quantum kinematics and their symmetries	Kenny DE COMMER Approximation properties for quantum groups	Eduardo MARTÍNEZ Connections and Euler-Lagrange equations on Lie algebroids
14:30 - 14:55	Andrei PATRASCU A quantum field theoretical approach to the P vs. NP problem via the sign of the fermionic Quantum Monte Carlo	Yinhua ZHANG Braided autoequivalences and quantum commutative bi-Galois objects	Tom MESTDAG Homogeneity and Lagrangian systems
15:00 - 15:25	Alexis DE VOS On two subgroups of $U(n)$, important for quantum computing	Ivan IP Positive representations and higher quantum Teichmüller Theory	Eduardo GARCÍA-TORAÑO ANDRÉS Routh reduction, compatible transformations and stages
15:30 - 16:00	Coffee Break		
Topic	Statistical models, exact solutions	String theory, quantum gravity and conformal field theory	Integrable models and related topics
16:00 - 16:25	Michael MONASTYRSKY Hecke Graphs, Ramanujan Graphs and Generalized Duality transformations for Lattice Spin Systems	David RIDOUT Parabolic categories for bosonic ghost systems	John HARNAD 2D Toda tau functions as combinatorial generating functions
16:30 - 16:55	Osamu SUZUKI The method of Riemann-Hilbert problems for 3D-Ising model	Ladislav HLAVATY Plane-parallel waves as duals of the flat background	Oleg CHALYKH KP hierarchy for a cyclic quiver
17:00 - 17:25	Julien RANDON-FURLING Universality and time-scale invariance for the shape of planar Lévy processes	Tamar FRIEDMANN Enumeration of Vacua in String Theory via Algebraic Combinatorics	Jose Francisco GOMES Backlund Transformation for mKdv Hierarchy
17:30 - 17:55		Felix REHREN Finite groups and nonassociativity in vertex algebras	Charalampos EVRIPIDOU A construction of generalized Lotka-Volterra systems connected with simple Lie algebras

Wednesday 16 July

Room	Lecture room D	Lecture room E	Lecture room F
Topic	Quantum systems and quantum mechanics	Lie groups, Lie superalgebras, representation theory	Superintegrable and exact solvable systems, special functions, Lie symmetries
09:00 - 09:25	Richard KERNER Allan Solomon - In memoriam	Tathagata BASAK Fundamental group of a monstrous(?) discriminant complement	Maksym DEREVYAGIN Orthogonal polynomials and dressing chains
09:30 - 09:55	Karol PENSON Allan I. Solomon: Some highlights of his work in Mathematical Physics	Jouko MICKELSSON Projective families of Dirac operators on a Banach Lie groupoid	Vincent GENEST A Laplace-Dunkl equation on the 2-sphere and the Bannai-Ito algebra
10:00 - 10:30	Coffee Break		
10:30 - 10:55	Apostolos VOUDAS Quantum probabilities versus Kolmogorov probabilities and Bell inequalities	Roy OSTE Unique characterization of the Fourier transform in the framework of representation theory	Mariano A. DEL OLMO Lie groups, Jacobi polynomials and Wigner d-matrices
11:00 - 11:25	Laurence BOYLE Spin-orbit coupling in low-symmetry systems	Alexander ELASHVILI Asymptotic behaviour of Lieandric numbers	Sengul KURU Polynomial Symmetries of Classical and Quantum Spherical Lissajous Systems
11:30 - 12:30	Panel discussion: Recent advances and future challenges in group theoretical methods in physics (Lecture room D)		

Wednesday 16 July

Room	Lecture room G	Lecture room H	Lecture room I
Topic		String theory, quantum gravity and conformal field theory	
09:00 - 09:25		Katrin WENDLAND On Mathieu Moonshine	
09:30 - 09:55		Glenn BARNICH Three dimensional gravity, holography and Virasoro coadjoint orbits	
10:00 - 10:30	Coffee break		
10:30 - 10:55		Karan GOVIL Higher Spin Algebras in AdS5 and AdS7	
11:00 - 11:25		Dmitry GAL'TSOV Rotating Taub-bolt instanton revisited	
11:30 - 12:30	Panel discussion: Recent advances and future challenges in group theoretical methods in physics (Lecture room D)		

Room	Lecture room D	Lecture room E	Lecture room F
Topic	Random matrix theory	Symmetries and group theory in biosciences	Wavelets / Group theory in many-body systems
13:00 - 13:25			
13:30 - 13:55			
14:00 - 14:25	Arno KUIJLAARS Products of random matrices	Maia ANGELOVA Complexity Analysis of Sleep Based on Non-Invasive Techniques	Franciszek SZAFRANIEC Bessel-to-Parseval via Julia dilations
14:30 - 14:55	Karl LIECHTY Nonintersecting paths on the circle and the tacnode process	Pierre-Philippe DECHANT Affine symmetry principles for non-crystallographic systems and applications to viruses and carbon onions	Kristina LAUNEY Emergent symmetries in atomic nuclei from first principles
15:00 - 15:25	Dong WANG Fluctuations of TASEP and LPP with general initial data	Bahruz GADJIEV Critical phenomena in small world networks	Walter SMILGA Momentum entanglement in relativistic quantum mechanics
15:30 - 16:00	Coffee Break		
Topic	Quantum systems and quantum mechanics	Lie groups, Lie superalgebras, representation theory	Superintegrable and exact solvable systems, special functions, Lie symmetries
16:00 - 16:25	Ali MOSTAFAZADEH Dynamical Formulation of Scattering Theory and Unidirectional Invisibility	Richard KERNER Z ₃ -splitting of quantum harmonic oscillator and ternary generalization of Heisenberg algebra	Tom KOORNWINDER Okounkov's BC-type interpolation Macdonald polynomials and their q=1 limit
16:30 - 16:55	Pekka LAHTI Measurement uncertainty relations	Chengming BAI Classical Yang-Baxter equation and some related structures	Galina FILIPUK On the nonlinear differential equations
17:00 - 17:25	J. ZHENG-JOHANSSON A Microscopic Theory of Neutron	Stefan BERCEANU On equations of motion on Siegel-Jacobi spaces generated by linear Hamiltonians in the generators of the Jacobi group	Mahouton Norbert HOUNKON-NOU On some differential transformations of hypergeometric equations
17:30 - 17:55	Yossi STRAUSS Softening the edges of the Lax-Phillips scattering theory for quantum mechanics	Rolf DAHM On a Microscopic Representation of Spacetime	Federico ZULLO Properties of the series solutions for Painlevé transcendents: from P _{IV} to P _I through P _{XXXIV}

Thursday 17 July

Room	Lecture room G	Lecture room H	Lecture room I
Topic	Clifford algebras, Clifford analysis and applications	Hopf algebras and quantum groups	Geometric mechanics and symmetry
13:00 - 13:25	Irene SABADINI On the Bergman spaces of slice hyperholomorphic functions		
13:30 - 13:55	Amedeo ALTAVILLA On the real differential of a slice regular function		
14:00 - 14:25	Cinzia BISI The Schwarz-Pick Lemma for slice regular functions.	Axel DE GOURSAC Quantum supergroups	Daisuke TARAMA Stability analysis for the free rigid body on $U(n)$
14:30 - 14:55	Nelson FAUSTINO Hidden Symmetries in Discrete Clifford Analysis	Atsuo KUNIBA Tetrahedron equations and quantum R matrices for q-oscillator representations	Yakov ITIN The constitutive tensor of linear elasticity: its decompositions, Cauchy relations, null Lagrangians, and wave propagation
15:00 - 15:25	Paula CEREJEIRAS Riemann-Hilbert problems for discrete monogenic functions over the half space	Thomas ERNST q-Lie algebras and q-differential geometry united by examples	Trevor REMPEL Generalizing the Classical Spinning Particle
15:30 - 16:00	Coffee break		
Topic	Clifford algebras, Clifford analysis and applications	String theory, quantum gravity and conformal field theory	Integrable models and related topics
16:00 - 16:25	Eckhard HITZER The orthogonal planes split of quaternions and its relation to quaternion geometry of rotations	Lee Peng TEO Finite temperature Casimir interaction between spheres in higher dimensional spacetime	Laszlo FEHER Recent developments in the reduction approach to action-angle dualities of integrable many-body systems
16:30 - 16:55	Giulia SARFATTI Invariant metrics associated with the quaternionic Hardy space	Norisuke SAKAI Neutral bions in the CP^{N-1} model	Michal MARVAN On symmetries and recursion operators of the Darboux--Egoroff system
17:00 - 17:25	Fabrizio COLOMBO Spectral properties of quaternionic linear operators	Masashi HAMANAKA Noncommutative Instantons and Reciprocity	Jing Ping WANG Representations of $sl(2, \mathbb{C})$ in the BGG Category O and master symmetries
17:30 - 17:55		Valeriy DVOEGLAZOV Energy-Momentum Tensor in Electromagnetic Theory and Gravitation from Relativistic Quantum Equations.	Pavle SAKSIDA On the nonlinear Fourier transform and its inverse

Friday 18 July

Room	Lecture room D	Lecture room E	Lecture room F
Topic	Random matrix theory	Lie groups, Lie superalgebras, representation theory	Superintegrable and exact solvable systems, special functions, Lie symmetries
13:00 - 13:25			
13:30 - 13:55			
14:00 - 14:25	Venkata Krishna Brahmam KOTA Group Theory for Embedded Random Matrix Ensembles: Open Problems	Enrico CELEGHINI Special functions, Lie algebras and Quantum mechanics	Francisco J. HERRANZ An exactly solvable deformation of the Coulomb problem associated with the Taub-NUT metric
14:30 - 14:55	Max ATKIN Critical Behaviour in Semi-classical Matrix Models and Painleve-Type Equations	M. RAUSCH DE TRAUBENBERG Harmonic functions for unitary representations of three dimensional Lie groups on their parameter space	Irina STEPANOVA Lie symmetry analysis and exact solutions of thermodiffusion equations
15:00 - 15:25		Kurt Bernardo WOLF Position and momentum in the monochromatic Maxwell fish-eye	Eugenio LEY KOO Rotations of the most asymmetric molecules via 4-step and 1-step ladder operators
15:30 - 16:00	Coffee Break		
Topic	Quantum systems and quantum mechanics		
16:00 - 16:25	Arno BOHM Boundary Conditions, Semi-groups and the Quantum Arrow of Time		
16:30 - 16:55	Hai BUI Relativistic Resonance and Decay Phenomena		
17:00 - 17:25	Birgit KAUFMANN Re-gauging, symmetries and degeneracies for Graph Hamiltonians		
17:30 - 17:55	Vicente Said MORALES SALGADO Supersymmetric partners of the truncated harmonic oscillator		

Friday 18 July

Room	Lecture room G	Lecture room H	Lecture room I
Topic	Clifford algebras, Clifford analysis and applications	Hopf algebras and quantum groups	Geometric mechanics and symmetry
13:00 - 13:25	Nele DE SCHEPPER New results on the radially deformed Dirac operator		
13:30 - 13:55	Uwe KAEHLER Clifford Analysis for fractional Dirac operators		
14:00 - 14:25	Swanhild BERNSTEIN Fractional powers of Riesz transforms and applications	Gigel MILITARU Crossed products for non-commutative Poisson algebras. Applications	Fabian RADOUX Higher symmetries of the conformal Laplacian
14:30 - 14:55	Roman LAVICKA The Fischer decomposition of polynomials on superspace	Ana AGORE Classifying split extensions of quantum groups	Yassir DINAR The equivalence of Drinfeld-Sokolov, bihamiltonian and Dirac reductions
15:00 - 15:25	Dalibor SMID Howe duality for polynomials on the superspace	Ralph KAUFMANN Hopf algebras related to categorical structures and number theory	Goedele WAEYAERT Lifted tensors and Hamilton-Jacobi separability
15:30 - 16:00	Coffee Break		
Topic	Clifford algebras, Clifford analysis and applications		Integrable models and related topics
16:00 - 16:25	Vladimir SOUCEK The reduction of symmetry and special solutions in Clifford analysis		Willy HEREMAN Symbolic Computation of Conservation Laws of Nonlinear Partial Differential Equations
16:30 - 16:55	Sirkka-Liisa ERIKSSON Cauchy Type of Theorem in Hyperbolic Function Theory		Laurent DELISLE Constant surfaces associated to supersymmetric CP^{N-1} sigma models
17:00 - 17:25	Peter VAN LANCKER Eigenfunctions of the higher spin operator R_k^s on S^{m-1}		Alfonso BLASCO-SANZ An integrable Hénon-Heiles system on the sphere and the hyperbolic plane
17:30 - 17:55	Tim RAEYMAEKERS Higher spin operators as generators of transvector algebras		

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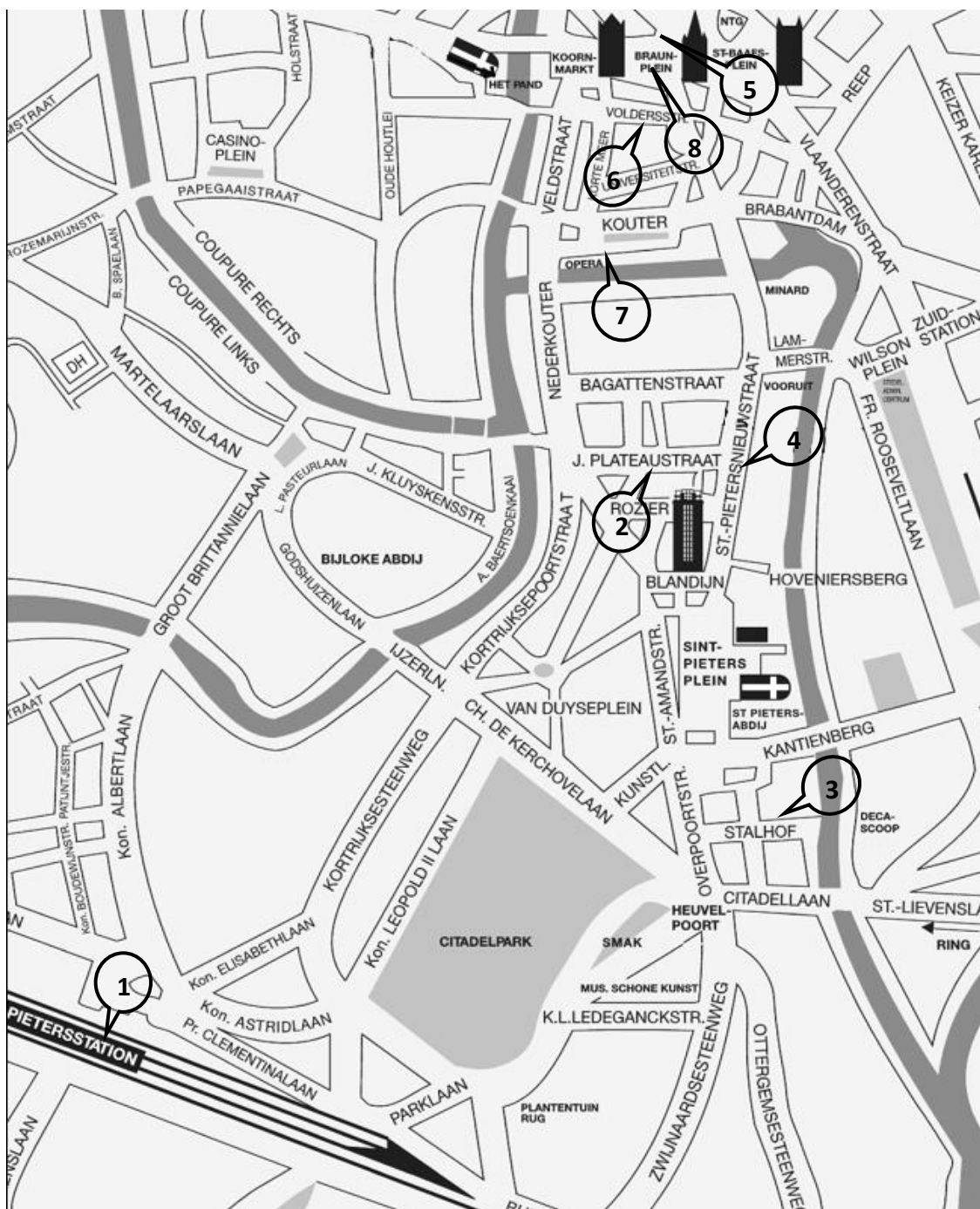
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1 Railway Station	5 City Hall (Welcome drink)
2 Conference site (Plateaustraat)	6 Aula (Weyl Prize and Wigner Medal Ceremony)
3 University Guest House	7 Handelsbeurs (Conference banquet)
4 De Brug (lunch)	8 City Pavilion (excursion)