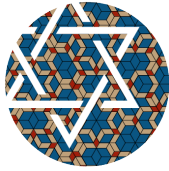




The Steinhardt Museum of Natural History
Tel Aviv University, 18-23 June, 2023

Program Booklet



ICQ15

The 15th International Conference on Quasicrystals

Welcome to ICQ15

Welcome to ICQ15 – The 15th International Conference on Quasicrystals!

The discovery of quasicrystals, over four decades ago, put an end to the age-old crystallographic paradigm that long-range order is synonymous with periodicity. It opened a new challenging research field, which is still pursued by an active and interdisciplinary scientific community worldwide. Great progress has been made, particularly in recent years, in understanding the mathematics, geometry, and physical behavior of quasicrystals, while the ever-growing list of diverse experimental systems, exhibiting aperiodic long-range order, keeps posing new and challenging questions and puzzles.

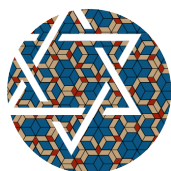
We have an exciting and packed program lined up this week, with over 75 contributions, covering a wide range of topics in the field of quasicrystals, or more generally, in the study of aperiodic long-range order. All lectures will take place in the main auditorium, on the ground floor of the Steinhardt Museum of Natural History. Two poster sessions will be held, on Monday and Wednesday afternoons, at the Ardi Gallery, which is located on the 1st floor of the museum. Poster presenters are asked to hang their posters during the lunch breaks on both days, and be present near their posters during both sessions. We plan to hold four topical panel discussions during the week, where we intend to critically evaluate the state of research in our field and potentially set some goals for the near future. Prepare your questions for the panelists!

Social activities are a great opportunity for direct interaction and fruitful scientific discussions. We have scheduled a welcome reception, at the Steinhardt Museum, on Sunday at 18:00; a half-day excursion to Jerusalem after lunch on Tuesday, which will conclude with a dinner in Abu Ghosh on the way back; and a festive dinner on Thursday at Goshen restaurant in Tel Aviv. We hope you will all attend these activities.

Many people, whose names appear on various lists in the next few pages, contributed to the preparation and to the planning of this meeting. I would like to thank the members of the International Advisory Board of the Conference, as well as the additional members on the International Program Committee, for all their indispensable help and wise advice. I would also like to thank the Local Organizing Committee for their moral support, and all our sponsors for their financial support. Special thanks go to Rona Zyss for her dedicated assistance with all technical and administrative matters. Last but not least, I would like to thank all the participants for their great efforts in preparing their posters and lectures – the central and most important part of the meeting.

I wish you a pleasant and stimulating week here on the campus of Tel Aviv University.

Ron Lifshitz,
Chair of ICQ15

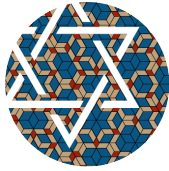


ICQ15

The 15th International Conference
on Quasicrystals

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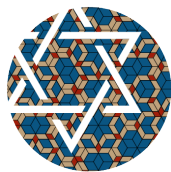
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The 2023 Jean-Marie Dubois Award

Michael Baake, Professor of Mathematics at Bielefeld University, Germany, will receive the **Jean Marie Dubois Award** in recognition of his development of mathematical tools that relate sets of point scatterers to their diffraction patterns, thereby elucidating the notions of an aperiodic crystal and of long-range structural order.

Prof. Michael Baake received his Ph.D. in Theoretical Physics in 1987 from the University of Bonn, where he focused on supersymmetry in nuclear physics and statistical mechanics. With a habilitation in Mathematical Physics from the University of Tübingen, his research focus transitioned into the mathematical theory of quasicrystals, of which he has become one of the world's foremost leaders.



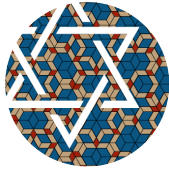
Photo credit: Robert V. Moody

Prof. Baake has made pioneering contributions to the study of the relationship between the diffraction spectra of point sets, the spectra of dynamical systems, and the existence of long-range order. In doing so he pushed the boundaries of research on quasicrystals, considering such systems as cut-and-project sets with unconventional windows, substitution tilings with randomness, and the sets of visible points on a lattice, in many cases writing the defining papers. Michael is very much appreciated for his dedication to disseminating the mathematical ideas underlying the notion of aperiodic order, most-notably with his book series *Aperiodic Order*, co-authored with the late Uwe Grimm, as well as for his leadership, and for his devotion to his students and postdocs.

IUCr Award for Young Scientists

IUCr fellowships for young scientists will be awarded at ICQ15 to the following recipients:

- **Bryan Ceasar L. Felipe**, Central Luzon State University, Philippines
- **Liam Chandler**, University of Liverpool, UK
- **Domagoj Fijan**, University of Michigan Ann Arbor, USA
- **Paul Hege**, University of Tübingen, Germany
- **Masahiro Hori**, University of Saskatchewan, Canada & Tokyo University of Science, Japan
- **Neil Mañibo**, Bielefeld University, Germany
- **Naïma Saadi**, University of Liverpool, UK
- **Yagnesh Shadangi**, Seoul National University, South Korea
- **Luis S. Silvestre Jr.**, Ateneo de Manila University, Philippines
- **Nydia R. Varela-Rosales**, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany
- **Kelly Wang**, University of Michigan Ann Arbor, USA
- **Robert F. B. Weigel**, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

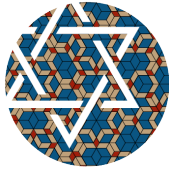
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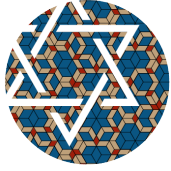
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- C-MetAC - European Integrated Centre for the Development of New Metallic Alloys and Compounds
- The Raymond and Beverly Sackler Faculty of Exact Sciences, Tel Aviv University
- The Raymond and Beverly Sackler School of Physics & Astronomy, Tel Aviv University



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Preconference Lectures – 18/6/2023

Tel Aviv University Physics Colloquium

Chair: Ron Lifshitz

14:00 -15:00 **Fascinating aperiodic crystals**
Marc de Boissieu, *Univ. Grenoble Alpes, CNRS, France*

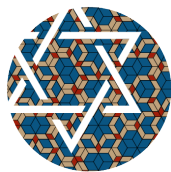
Tutorials

Chair: Ron Lifshitz

15:30–16:30 Tutorial 1: Almost periodicity
Timo Spindeler, *Universität Bielefeld, Germany*

16:40–17:40 Tutorial 2: Topological quantum numbers in quasicrystals
Johannes Kellendonk, *Université Lyon 1, France*

18:00 Reception at the Steinhardt Museum



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Program for Monday, 19 June, 2023

09:00–11:00 Session 1 – Structure 1

Chair: Marc de Boissieu, Université Grenoble Alpes, CNRS, France

- 09:00–09:20 **Welcome remarks**
Dan Shechtman, *Technion, Israel*
Ron Lifshitz, *Tel Aviv University, Israel*
- 09:20–09:50 **Cluster covering structure in a 3/2-2/1-2/1 rational approximant to Bergman type icosahedral quasicrystals**
Hiroyuki Takakura, *Hokkaido University, Japan*
- 09:50–10:10 **A tale of two similar 1/1 Tsai-type quasicrystal approximants in RE-Au-Ge systems**
Sivaprasad Ghanta, *Stockholm University, Sweden*
- 10:10–10:30 **Investigation of chemical order in $Gd_{14}Au_xAl_{86-x}$ quasicrystal 1/1 approximant and its correlation to magnetic properties**
Yu-Chin Huang, *Uppsala University, Sweden*
- 10:30–10:50 **The decagonal AlCuRh quasicrystal modelled with five atomic surfaces – high-temperature XRD data analysis**
R. Strzałka, *AGH University of Science and Technology, Poland*
- 10:50–11:00 **In Memoriam: Christian Janot & Marc Audier**
Marc de Boissieu, *Université Grenoble Alpes, CNRS, France*

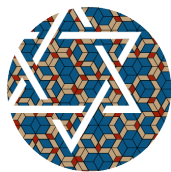
11:00–11:30 **Coffee Break**

11:30–13:00 Session 2 – Electronic Properties 1

Chair: Nayuta Takemori, Osaka University, Japan

- 11:30–12:00 **Engineering quasiperiodicity with two-dimensional moiré structures**
Sergio de la Barrera, *MIT, USA and University of Toronto, Canada*
- 12:00–12:20 **Emergence of marginal critical states in non-Penrose type rhombic decagonal tilings**
Nobuhisa Fujita, *Tohoku University, Japan*
- 12:20–12:40 **Emergence of criticality through a cascade of delocalization transitions in quasiperiodic chains**
Oded Zilberberg, *University of Konstanz, Germany*
- 12:40–13:00 **Semiconducting quasicrystal and its approximant as thermoelectric materials**
Yutaka Iwasaki, *National Institute for Materials Science, Japan*

13:00–14:00 **Lunch**



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on Quasicrystals

14:00–15:30 Session 3 – Soft Matter 1

Chair: Tomonari Dotera, Kindai University, Japan

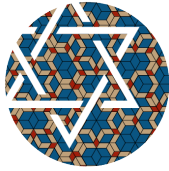
- 14:00–14:30 **A Columnar Liquid Quasicrystal – Honeycomb with Triangular, Square and Trapezoidal Cells**
X. B. Zeng, *Sheffield University, UK*
- 14:30–14:50 **Diverse Quasicrystals in Liquid Crystal Polymers: A Self-Consistent Field Study**
Kai Jiang, *Xiangtan University, China*
- 14:50–15:10 **Estimation of continuum/discrete models for QC formation**
N. Yoshinaga, *Tohoku University and MathAM-OIL, AIST, Japan*
- 15:10–15:30 **Periodic and Quasiperiodic Tilings with Complexity in Microphase-Separated Pentablock Polymers**
Yushu Matsushita, *Toyota Physical and Chemical Research Institute, Japan*

15:30–16:30 Poster Session 1

16:30–18:00 Session 4 – Structure 2

Chair: Hiroyuki Takakura, Hokkaido University, Japan

- 16:30–17:00 **Unravelling complex systems through diffuse scattering**
Arianna Minelli, *Oak Ridge National Laboratory, USA*
- 17:00–17:30 **Investigation of the Local Atomic Structure of Quasicrystals by Atomic Resolution Holography**
Jens R. Stellhorn, *Nagoya University, Japan*
- 17:30–18:00 **Panel Discussion: The structure of quasicrystals and its determination**
Marc de Boissieu, *Université Grenoble Alpes, CNRS, France*
Kaoru Kimura, *National Institute for Materials Science and University of Tokyo*
Marek Mihalkovic, *Slovak Academy of Sciences, Slovakia*
Hiroyuki Takakura, *Hokkaido University, Japan*



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Program for Tuesday, 20 June, 2023

09:00–11:00 Session 5 – Mathematics of Quasicrystals 1

Chair: Franz Gähler, Universität Bielefeld, Germany

- 09:00–09:30 **Substitutions on compact infinite alphabets**
Neil Mañibo, *Universität Bielefeld, Germany*
- 09:30–09:50 **Periodicity of joint co-tiles**
Ya'ar Solomon, *Ben-Gurion University of the Negev, Israel*
- 09:50–10:10 **Coverability of words and pictures**
Eden Miro, *Ateneo de Manila University, Philippines*
- 10:10–10:30 **Patch frequencies in Penrose rhombic tilings**
Jan Mazáč, *Universität Bielefeld, Germany*
- 10:30–10:50 **Hexagonal metallic-mean tilings as aperiodic approximants of the honeycomb lattice**
Akihisa Koga, *Tokyo Institute of Technology, Japan*
- 10:50–11:00 **In Memoriam: Uwe Grimm**
Michael Baake, *Universität Bielefeld, Germany*

11:00–11:30 Coffee Break

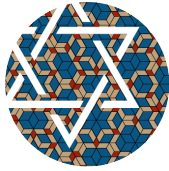
11:30–12:10 Session 6 – Mechanical Properties

Chair: Hans-Rainer Trebin, University of Stuttgart, Germany

- 11:30–11:50 **Structural evolution and mechanical properties of Al-Cu-Fe quasicrystal reinforced 6082 Al matrix nanocomposites by mechanical milling and spark plasma sintering**
Yagnesh Shadangi, *Indian Institute of Technology (BHU), India*
and Seoul National University, Republic of Korea
- 11:50–12:10 **Direct Ink Writing of Quasicrystalline ZnO Structures**
Naïma Saadi, *University of Liverpool, UK*

12:10–12:40 Lunch

12:40 Excursion to Jerusalem

**ICQ15****The 15th International Conference
on Quasicrystals**

Program for Wednesday, 21 June, 2023

09:00–11:00 Session 7 – Magnetic Properties

Chair: Alan Goldman, Iowa State University, USA

- 09:00–09:30 **Ordering in magnetic quasicrystals and approximants**
Taku J. Sato, *Tohoku University, Japan*
- 09:30–09:50 **Various magnetic phases in Tsai-type 2/1 quasicrystal approximants**
T. Sugimoto, *Osaka University, Japan*
- 09:50–10:10 **Classical spin models on the 1/1 Tsai-type approximant**
Daniel Qvarngård, *Royal Institute of Technology, Sweden*
- 10:10–10:30 **Exact quantum ground state of a two-dimensional quasicrystalline antiferromagnet**
P. Ghosh, *Universität Würzburg, Germany*
- 10:30–11:00 **Search for long-range magnetic order in icosahedral quasicrystals**
Ryuji Tamura, *Tokyo University of Science, Japan*

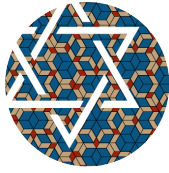
11:00–11:30 Coffee Break

11:30–12:50 Session 8 – Electronic Properties 2

Chair: Oded Zilberberg, University of Konstanz, Germany

- 11:30–12:00 **Ultracold atoms in an optical quasicrystal**
Ulrich Schneider, *University of Cambridge, UK*
- 12:00–12:20 **Perpendicular space accounting of compact localized states in quasicrystals**
M. Ö. Oktel, *Bilkent University, Turkey*
- 12:20–12:50 **Gaps and gap labeling and passage from molecular states to critical states in a 2D quasiperiodic tiling**
A. Jagannathan, *Université Paris-Saclay, France*

12:50–14:00 Lunch



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14:00–15:10 Session 9 – Mathematics of Quasicrystals 2

Chair: Neil Mañibo, Universität Bielefeld, Germany

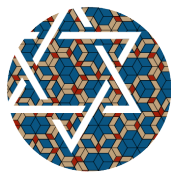
- 14:00–14:30 **Pure point diffraction and almost periodicity**
Daniel Lenz, *Friedrich-Schiller-Universität Jena, Germany*
- 14:30–14:50 **Analysis of hyperuniformity reveals small statistical approximant patches in quasicrystals**
Michael Schmiedeberg, *Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany*
- 14:50–15:10 **The Lorentz gas on quasicrystals**
Rodrigo Treviño, *University of Maryland, College Park, USA*

15:10–16:20 Poster Session 2

16:20–18:00 Session 10 – Electronic Properties 3

Chair: Anuradha Jagannathan, Université Paris-Saclay, France

- 16:20–16:50 **Correlated electronic states in quasicrystals**
Nayuta Takemori, *Osaka University, Japan*
- 16:50–17:10 **Electron interaction driven exotic superconductivity in quasicrystals**
F. Yang, *Beijing Institute of Technology, China*
- 17:10–17:30 **Self-consistent study of topological superconductivity in two-dimensional Penrose and Ammann-Beenker quasicrystals**
Masahiro Hori, *University of Saskatchewan, Canada*
and *Tokyo University of Science, Japan*
- 17:30–18:00 **Panel Discussion: Electronic and magnetic properties of quasicrystals**
Anuradha Jagannathan, *Université Paris-Saclay, France*
Alan Goldman, *Iowa State University, USA*
Nayuta Takemori, *Osaka University, Japan*
Ryuji Tamura, *Tokyo University of Science, Japan*
Oded Zilberberg, *University of Konstanz, Germany*

**ICQ15**The 15th International Conference
on Quasicrystals

Program for Thursday, 22 June, 2023

09:00–11:00 Session 11 – Soft Matter 2

Chair: **Xiangbing Zeng**, University of Sheffield, UK

- 09:00–09:30 **Icosahedral quasicrystals formed by particles with directional bonds**
Jonathan P.K. Doye, *University of Oxford, UK*
- 09:30–09:50 **3-dimensional patchy-particle axial quasicrystals**
Eva G. Noya, *Consejo Superior de Investigaciones Científicas (CSIC), Spain*
- 09:50–10:10 **A Density Functional for Hard-Core Patchy Colloids**
R. F. B. Weigel, *Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany*
- 10:10–10:30 **On quasiperiodic functions, related quasicrystal tilings, and defects in binary tilings**
Johannes Roth, *University of Stuttgart, Germany*
- 10:30–11:00 **Thermodynamically stable quasicrystal from tetrahedral colloids**
Michael Engel, *Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany*

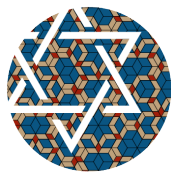
11:00–11:30 **Coffee Break**

11:30–13:00 Session 12 – Phasons

Chair: **Michael Widom**, Carnegie Mellon University, USA

- 11:30–11:50 **Layering: a novel real-space method for construction of quasicrystals from a quasi-unit cell and understanding phasons**
Domagoj Fijan, *University of Michigan Ann Arbor, USA*
- 11:50–12:10 **Study cases on the free energy calculations in 2D and 3D model quasicrystals**
Nydia R. Varela-Rosales, *Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany*
- 12:10–12:30 **Confirmation of the random tiling hypothesis by polar calculus**
Hans-Rainer Trebin, *University of Stuttgart, Germany*
- 12:30–13:00 **Panel Discussion: Soft-matter quasicrystals and phasons**
Michael Engel, *Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany*
Tomonari Dotera, *Kindai University, Japan*
Jonathan P.K. Doye, *University of Oxford, UK*
Xiangbing Zeng, *University of Sheffield, UK*

13:00–14:00 **Lunch**

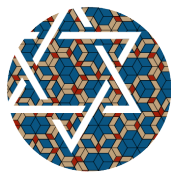
**ICQ15****The 15th International Conference
on Quasicrystals****14:00–15:40 Session 13 – Two-dimensional Systems**Chair: **Ronan McGrath**, University of Liverpool, UK

- 14:00–14:30 **Dodecagonal oxide quasicrystals deciphered**
Stefan Förster, *Martin-Luther-Universität Halle- Wittenberg, Germany*
- 14:30–14:50 **Driving honeycomb networks into dodecagonal quasicrystals**
M. Haller, *Martin-Luther-Universität Halle- Wittenberg, Germany*
- 14:50–15:10 **Structural investigation of the Ho-Au-Si(100) approximant surface**
Wilfried Bajoun Mbajoun, *Université de Lorraine, France*
- 15:10–15:30 **Quasiperiodic moiré patterns in twisted bilayers**
Denis Gratias, *CNRS-IRCP Paris, France*
- 15:30–15:40 **In Memoriam: Pat Thiel**
Ronan McGrath, *University of Liverpool, UK*

15:40–16:10 Coffee Break**16:10–17:40 Session 14 – Mathematics of Quasicrystals 3**Chair: **Michael Baake**, Universität Bielefeld, Germany

- 16:10–16:40 **Constrained Models on Ammann-Beenker Tilings**
Felix Flicker, *Cardiff University, UK*
- 16:40–17:10 **The hat tiling is topologically conjugate to a model set**
Franz Gähler, *Universität Bielefeld, Germany*
- 17:10–17:40 **Panel Discussion: Mathematics of aperiodic long-range order**
Michael Baake, *Universität Bielefeld, Germany*
Felix Flicker, *Cardiff University, UK*
Johannes Kellendonk, *Université Lyon 1, France*
Neil Mañibo, *Universität Bielefeld, Germany*

17:40 Conference Dinner in Tel Aviv



ICQ15

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on Quasicrystals

Program for Friday, 23 June, 2023

09:00–11:00 Session 15 – Metallurgy, Stability & Growth

Chair: Janusz Wolny, AGH University of Krakow, Poland

- 09:00–09:30 **Simulated structure and thermodynamic stability of the AlCoCu decagonal quasicrystal**
Michael Widom, *Carnegie Mellon University, USA*
- 09:30–09:50 **Formation enthalpies of Al-Mn-Pd and the structure of the *i*-AlMnPd quasicrystal**
Marek Mihalkovic, *Slovak Academy of Sciences, Slovakia*
- 09:50–10:10 **What is the origin of the difference between aluminum and boron icosahedral clusters and cluster solids?**
Kaoru Kimura, *National Institute for Materials Science and University of Tokyo*
- 10:10–10:30 **Magnetism in CoFeNi-based high-entropy alloys: From basic scientific questions to applications**
P. Koželj, *Jožef Stefan Institute and University of Ljubljana, Slovenia*
- 10:30–11:00 **Deep learning enables identification of a previously unknown icosahedral quasicrystal from multiphase powder diffraction patterns**
T. Yamada, *Tokyo University of Science, Japan*

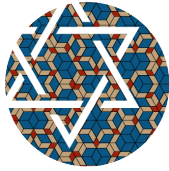
11:00–11:30 Coffee Break

11:30–12:30 Summary & Closing

Chair: Ron Lifshitz, Tel Aviv University, Israel

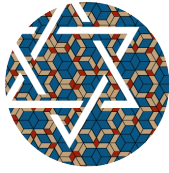
- 11:30–11:50 **Theoretical Summary**
Michael Widom, *Carnegie Mellon University, USA*
- 11:50–12:10 **Experimental Summary**
Marc de Boissieu, *Université Grenoble Alpes, CNRS, France*
- 12:10–12:30 **Closing remarks and farewell**
Ron Lifshitz, *Tel Aviv University, Israel*

12:30–13:30 Lunch

**ICQ15****The 15th International Conference
on Quasicrystals**

List of Posters

- P-1 **Structural transformation, thermal stability and indentation of Al-Cu-Fe quasicrystals reinforced by soft Sn particle**
Yagnesh Shadangi, *Indian Institute of Technology (BHU), India*
and *Seoul National University, Republic of Korea*
- P-2 **On the structural similarity between Tsai- and Bergman-type periodic approximant crystals**
I. Buganski, *¹AGH University of Krakow, Poland*
- P-3 **25 years of quasiperiodic crystallography in real space**
Janusz Wolny, *AGH University of Krakow, Poland*
- P-4 **Crystal structure and phase formation behavior of a 1/0 cubic approximant in the Al-Pd-Fe system**
Nobuhisa Fujita, *Tohoku University, Japan*
- P-5 **Working towards an open-source tool for peak detection in QC diffraction patterns**
Kelly L. Wang, *University of Michigan Ann Arbor, USA*
- P-6 **(Fibonacci)³**
Dvir Flom, *Ben-Gurion University of the Negev, Israel*
- P-7 **Hexagonal and trigonal golden-mean aperiodic tilings**
Sam Coates, *University of Liverpool, UK*
- P-8 **Periodic approximation of substitution subshifts**
Lior Tenenbaum, *Technion-Israel Institute of Technology, Israel*
- P-9 **Digit Random Substitutions**
Bryan Ceasar L. Felipe, *Central Luzon State University*
and *Ateneo de Manila University, Philippines*
- P-10 **Discretized frames generated from primitive Lie group tilings**
L. Silvestre, *Ateneo de Manila University, Philippines*
- P-11 **Structural Studies of local environments in high-symmetry quasicrystals**
Michael Schmiedeberg, *Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany*



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- P-12 **Hyperuniformity in the two-dimensional periodic and quasiperiodic lattices**
Akihisa Koga, Tokyo Institute of Technology, Japan
- P-13 **Height functions and multifractality of the tight-binding Hamiltonian on one-dimensional quasicrystals**
Xiujun Fu, South China University of Technology, China
- P-14 **Proving Spectral Gaps in Quasicrystals**
*Paul Hege, University of Tübingen
and Hertie Institute for Clinical Brain Research, Germany*
- P-15 **Electronic states of Au-Ga-Ce and Cd-Ce quasicrystal approximants probed by core-level and valence-band photoemission spectroscopy**
G. Nozue, Osaka University and RIKEN SPring-8 Center, Japan
- P-16 **Anomalous properties and many-valleys structure of the free-energy of RSB state in Al-based quasicrystals**
I. Kanazawa, Tokyo Gakugei University, Japan
- P-17 **Magnetic Ordering of The Octagonal Ammann-Beenker Tiling Fabricated with Nanolithography**
Liam Chandler, University of Liverpool, UK
- P-18 **Phason modes and dynamics of the incommensurately modulated Rb_2ZnCl_4 phase**
Marc de Boissieu, Univ. Grenoble Alpes, CNRS, France
- P-19 **Molecular thin film growth on quasicrystal and approximant surfaces**
Hem Raj Sharma, University of Liverpool, UK
- P-20 **4D-description of twisted bilayers**
Marianne Quiquandon, CNRS-IRCP, Chimie-ParisTech, France
- P-21 **Tiling by near coincidence**
Meshy Ochana, Tel Aviv University, Israel
- P-22 **Quasicrystals formed by extended hard-core/square-shoulder potentials**
Tomonari Dotera, Kindai University, Japan



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Program at a Glance
18/6/2023–23/6/2023



	Sunday June 18	Monday June 19	Tuesday June 20	Wednesday June 21	Thursday June 22	Friday June 23
08:15-09:00	Light Breakfast					
Early AM	Light Breakfast					
09:00-11:00	Session 1 - Structure 1 09:00 Welcome remarks <u>Chair: de Boissieu</u> 09:20 Takakura (I) 09:50 Ghanta (C) 10:10 Huang (C) 10:30 Strzałka (C) <i>In Memoriam: Janot & Audier</i>	Session 5 - Math 1 <u>Chair: Gähler</u> 09:00 Mañibo (I) 09:30 Solomon (C) 09:50 Miro (C) 10:10 Mazáč (C) 10:30 Koga (C) <i>In Memoriam: Grimm</i>	Session 7 - Magnetism <u>Chair: Goldman</u> 09:00 Sato (I) 09:30 Sugimoto (C) 09:50 Qvangård (C) 10:10 Ghosh (C) 10:30 Tamura (I)	Session 11 - Soft 2 <u>Chair: Zeng</u> 09:00 Doye (I) 09:30 Noya (C) 09:50 Weigel (C) 10:10 Roth (C) 10:30 Engel (I)	Session 15- Metallurgy <u>Chair: Wolny</u> 09:00 Widom (I) 09:30 Mihalkovic (C) 09:50 Kimura (C) 10:10 Koželj (C) 10:30 Yamada (I)	
11:00-11:30	Coffee Break					
Late AM	Coffee Break					
11:30-12:30	Session 2 - Electrons 1 <u>Chair: Takemori</u> 11:30 de la Barrera (I) 12:00 Fujita (C) 12:20 Zilberberg (C) 12:40 Iwasaki (C)	Session 6 - Mechanics <u>Chair: Trebin</u> 11:30 Shadangi (C) 11:50 Saadi (C) 12:10 - Lunch	Session 8 - Electrons 2 <u>Chair: Zilberberg</u> 11:30 Schneider (I) 12:00 Oktel (C) 12:20 Jagannathan (I)	Session 12 - Phasons <u>Chair: Widom</u> 11:30 Fijan (C) 11:50 Verala-Rosales (C) 12:10 Trebin (C) 12:30 <i>Panel Discussion</i>	Summary & Closing Theory: Widom Experiment: de Boissieu Closing 12:30 - Light Lunch	
12:30-13:00	13:00 - Lunch					
13:00-14:00	TAU Colloquium 14:00 de Boissieu Coffee Break Tutorial 1 15:30 Spindeler	13:00 - Lunch Session 3 - Soft 1 <u>Chair: Dotera</u> 14:00 Zeng (I) 14:30 Jiang (C) 14:50 Yoshinaga (C) 15:10 Matsushita (C)	12:50 - Lunch Session 9 - Math 2 <u>Chair: Mañibo</u> 14:00 Lenz (I) 14:30 Schmiedeberg (C) 14:50 Treviño (C)	13:00 - Lunch Session 13 - 2d systems <u>Chair: McGrath</u> 14:00 Förster (I) 14:30 Haller (C) 14:50 Mbajoun (C) 15:10 Gratias (C) <i>In Memoriam: Thiel</i>		
Early PM	Conference Excursion to Jerusalem					
14:00-15:00	15:10 - Poster Session 2 w/ refreshments					
15:00-15:30	15:10 - Poster Session 2 w/ refreshments					
15:30-16:30	Session 4 - Structure 2 <u>Chair: Takakura</u> 16:30 Minelli (I) 17:00 Stellhorn (I) 17:30 <i>Panel Discussion</i>	Session 10 - Electrons 3 <u>Chair: Jagannathan</u> 16:20 Takemori (I) 16:50 Yang (C) 17:10 Hori (C) 17:30 <i>Panel Discussion</i>	Session 14 - Math 3 <u>Chair: Baake</u> 16:10 Flicker (I) 16:40 Gähler (I) 17:10 <i>Panel Discussion</i>	Session 14 - Math 3 <u>Chair: Baake</u> 16:10 Flicker (I) 16:40 Gähler (I) 17:10 <i>Panel Discussion</i>		
Late PM	Free / IAB Meeting*					
16:30-17:30	Excursion Dinner					
17:30-18:00	Excursion Dinner					
Evening	Gala Dinner					

I = Invited (25 minutes + 5 minutes for discussion); C = Contributed (17 minutes + 3 minutes for discussion); Panel discussion (30 minutes); * Board members only.