



# ICSM2023



## 8<sup>th</sup> INTERNATIONAL CONFERENCE on SUPERCONDUCTIVITY and MAGNETISM

4-11 May 2023

Liberty Hotels Lykia  
Ölüdeniz-Fethiye/TÜRKİYE

## Program Book

*The bridge between west and east in scientific and technological excellence of quality*



[www.icsm2008.org](http://www.icsm2008.org)  
[www.icsm2010.org](http://www.icsm2010.org)  
[www.icsm2012.org](http://www.icsm2012.org)  
[www.icsm2014.org](http://www.icsm2014.org)  
[www.icsm2016.org](http://www.icsm2016.org)  
[www.icsm2018.org](http://www.icsm2018.org)  
[www.icsm2020.org](http://www.icsm2020.org)  
[www.icsm2023.org](http://www.icsm2023.org)

[organizers@icsmforever.org](mailto:organizers@icsmforever.org)





**8<sup>th</sup> International Conference on  
Superconductivity and Magnetism**  
4<sup>th</sup> -11<sup>th</sup> May 2023, Fethiye, Türkiye



# **8<sup>TH</sup> INTERNATIONAL CONFERENCE ON SUPERCONDUCTIVITY AND MAGNETISM**

4<sup>th</sup> -11<sup>th</sup> May 2023

Liberty Lykia Hotel, Fethiye  
Oludeniz-Fethiye-Muğla/Türkiye

## **PROGRAM BOOK**

[organizers@icsmforever.org](mailto:organizers@icsmforever.org)  
[www.icsm2023.org](http://www.icsm2023.org)



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4<sup>th</sup> -11<sup>th</sup> May 2023, Fethiye, Türkiye



## WELCOME MESSAGE FROM THE CONFERENCE DIRECTOR

Dear Colleagues,

I am very pleased to extend you all a very warm welcome to ICSM2023 on behalf of all committees of the conference. It is particularly pleasing to see the participation of so many overseas colleagues as plenary speakers, half plenary speakers, keynote speakers, invited speakers, oral contributions, poster presenters and participants from many countries as in-person or online. We are very grateful to all for the invaluable contributions and support. We should also like to thank our sponsors, for their generous contributions and the exhibitors for their valuable role in this conference.

The organizers have put together and pushed very hard for very exciting scientific and social programs for the conference guests and I am very grateful to them for all their hard work. We are confident that the conference provides a forum where all matters of interest to the community of Superconductivity and Magnetism can be debated.

We are also thankful to MDPI Publishing, thanks to Prof. Dr. Antonio Bianconi and Ms. Connie Xiong as managing editors with the guest editors of the topical collection and their generous support to publish the peer-reviewed and accepted papers with outstanding features and solid background in MDPI as a topical collection for the ICSM2023 proceedings, in addition to the editors of many distinguished SCI journals, attending the conference. The committees for the conference are listed on our web site- please do contact us or Dr. Serap Safran with any query during the conference. This year's conference is also jointly held with Spring School and Educational Courses (Hi-SCALE COST Action) between 29 April-3 May 2023 at the same venue to give young talents an opportunity to advance their knowledge and skills with the help of world experts on Superconductivity and Magnetism. I am also thankful to Dr. Canan Aksoy for his generous efforts.

Thank you again for your participation. We wish you all a successful and enjoyable conference and a very happy visit to Oludeniz-Fethiye, one of the most beautiful and attractive parts of Türkiye.

Yours Faithfully,

Prof. Dr. Ali GENCER

Conference Director

On Behalf of All Committees of ICSM2023





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Session	Co-organizer
2D Atomically Thin Topological Materials	Junji Haruyama
Advances In Current-Induced Magnetization Control	Can Onur Avci
Advances In Thin Films, Multi-Layers and Patterned Nanostructures	Mustafa Öztürk & Erdem Demirci
Bulk Superconductors	Andres Sotelo & S. Baris Güner
Chiral Magnetism: Solitons and Skyrmions	Javier Campo & Victor Laliena
Cryogenics Materials, Engineering and Applications	Yasuharu Kamioka
Device Physics of Josephson Junctions and Their Fundamental Technologies	Yılmaz Simsek & Olcay Kızılaslan
Fe-Based Superconductors: Growth and Properties Relevant to Applications	Iida Kazumasa
Ferrites and Rare Earth Magnetic Materials	Muhammad Anis-ur-Rehman
Flux Pinning in Coated Conductors	Amit Goyal
High T <sub>c</sub> - Cuprates	Ivan Bozovic
Large Scale Applications of Superconductors and their fundamental technologies	Naoyuki Amemiya
Low Dimensional Frustrated Magnetism and Spin-Orbital Materials	Sergey Streltsov & Vladislav Kataev
Magnetic Recording, Sensors and Microwave Devices	Peter Švec
Magnetic shape memory alloys and magnetocaloric	Arcady Zhukov & Vladimir Chernenko
Magnetism of Nanoparticles, Nano-wires and Nanostructures	Hakan Köckar
Magnetism, Lattice Dynamics and Superconductivity	Stanislaw Dubiel
Magnetization Dynamics and Magnonics	Farkhad Aliev & Ahmad Awad
MgB <sub>2</sub> – Materials and Applications	Akiyasu Yamamoto & Hiroaki Kumakura
Micromechanics and Its Application to Energy Storage and Harvesting Application	Nadeem Kaiser
Molecular Spintronics Towards Spin Qubits for Quantum Computer and High Density Memory Devices	Shinya Hayami & Masahiro Yamashita

Session	Co-organizer
Nanocomposites: Properties and Applications	Ramadan Awad
New Phenomena and Applications in Molecular Magnets	Javier Campo & Yuko Hosokoshi
Novel Functional Magnetic Materials – Basic Approach and Applications	Arcady Zhukov
PT-Symmetric and Non-hermitian Superconducting Systems	Ilya Eremin
Quantum Error Mitigation	Irfan Siddiqi
Quantum Functional Materials and Quantum Technology	Davron Matrasulov
Quantum Information Technology and Applications	Joanna Skiba
Strongly Correlated Electrons and Systems	Tuson Park
Superconducting, Magnetic, Topological Arsenides and Tellurides	Vladimir Pudalov
Superconducting Motors and Applications in Electrical Engineering	Kevin Berger
Superconducting Spintronics	Alexander Golubov
Superconducting Thin Films and Interface Superconductivity	Davor Pavuna & Neven Barisic
Superconductivity and Magnetism in 3D Nanoarchitectures	Vladimir Fomin & Oleksandr Dobrovolskiy
Superconductivity in Lower Dimensions	Andrei Zaikin
Superconductors Under Extreme Conditions of Pressure and Strain	Alexander Shengelaya
Theory of Magnetism- Ab-Initio Calculations and Nanomagnetism	Ali Zaoui
Theory of Superconductivity	Iman Askerzade
Topological Quantum Magnets	Lia Krusin
Topological Quantum Matter	Valerii Vinokur
Topological Superconductivity, Majorana Modes and Topological Quantum Computation	Roland Wiesendanger
Vortex Matter, Dynamics and Pinning	Adrian Crisan





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## ENQUIRIES

### Conference Director

Ali GENCER  
e-mail: [director@icsmforever.org](mailto:director@icsmforever.org)

### Conference Vice-Chairs

Mehmet Ali AKSAN  
İbrahim BELENLİ

### Scientific Program Chair

Ali BOZBEY

### General Secretary

Serap SAFRAN

### International Relations

Ekrem YANMAZ  
Ercan ERTEKİN  
Duygu YAZICI

### Administrative Affairs & Abstract Handling

H. Gökhan BAKIR  
Hakan YETİŞ

### Speacil Issue, Proceedings & Full Text Publications

Mehmet Ali AKSAN

### Exhibition & Sponsorship Co-Chairs

Haluk KORALAY

### Registration Enquiries

Serdar ÖNCÜL  
e-mail: [registration@icsmforever.org](mailto:registration@icsmforever.org)

### Conference & Conference Director Managing Asistant

Elif Eyşan DEMİRTAŞ

### Welcome Committee/Transfers/Shuttles

Hakan GÜNGÜNEŞ  
S. Barış GÜNER

### Social Programme & Guest/Hotel Relations

Hasan AGİL  
Çiğdem Dönmez GÜNGÜNEŞ  
Zeliha ERTEKİN

### Student Representatives

Fatima ALMOKDAD  
Yunus KOÇ  
Yusuf ÖZNAL

For registration and hotel reservation: Serdar ONCUL [registration@icsmforever.org](mailto:registration@icsmforever.org)

For abstract handling and proceeding: Mehmet Ali AKSAN [abstract@icsmforever.org](mailto:abstract@icsmforever.org)

For all other enquiries please contact to: Eysan Demirtas [organizers@icsmforever.org](mailto:organizers@icsmforever.org)

## REGISTRATION & BADGE PICKUP

The Conference Registration Desk is located at the lobby/Convention Center. All participants are kindly asked to go to the Registration Desks upon arrival. If you have already registered for ICSM2023, you can pick up your badge and conference bag from the desk. Otherwise, you can register on-site. You can pay your registration fees by credit card or cash at the desk.

### Registration & Badge Pickup:

The ICSM2023 Conference Registration Desk will be open at the following times at Liberty Lykia Hotel, Oludeniz/Fethiye between Lobby and Reception:

4 May Thursday	08:00-12:00 - 14:00-19:00
5 May Friday	08:00-12:00 - 14:00-19:00 - 21:00-22:30
6 May Saturday	08:00-12:00 - 14:00-19:00 - 21:00-22:30
7 May Sunday	08:00-12:00 - 14:00-19:00 - 21:00-22:30
8 May Monday	08:00-12:00 - 14:00-19:00
9 May Tuesday	08:00-12:00 - 14:00-19:00
10 May Wednesday	08:00-12:00 - 14:00-19:00



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## LOCAL STEERING COMMITTEE

### Conference Director

Ali GENCER

### Conference Vice-Chairs

Mehmet Ali AKSAN  
İbrahim BELENLİ

### Scientific Program Chair

Ali BOZBEY

### General Secretary

Serap SAFRAN

### International Relations

Ekrem YANMAZ  
Ercan ERTEKİN  
Duygu YAZICI

### Awards Committee

İman ASKERZADE  
Mustafa AKDOĞAN

### Bursary

Lütfi ARDA

### Special Issue, Proceedings & Full Text Publications

Mehmet Ali AKSAN

### Exhibition & Sponsorship Co-Chairs

Haluk KORALAY

### Venue Coordinator

Şükrü ÇELİK  
Özgür ÖZTÜRK

### Registrar

Serdar ÖNCÜL

### Conference & Conference Director Managing Assistant

Elif Eyşan DEMİRTAŞ

### Welcome Committee/Transfers/Shuttles

Hakan GÜNGÜNEŞ  
S. Barış GÜNER

### Treasurer

Serdar ÖNCÜL  
Emine Begüm ÖNCÜL

### Social Programme & Guest/Hotel Relations

Hasan AGİL  
Çiğdem Dönmez GÜNGÜNEŞ  
Zeliha ERTEKİN

### Web Master

M. Eren ÇELİK

### Student Representatives

Fatima ALMOKDAD  
Yunus KOÇ  
Yusuf ÖZNAL



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## PRESENTER'S INFORMATION

### Oral Presentations

Duration of the oral presentations will be:

Plenary :45 min (40+5)

Half-plenary :40 min (35+5)

Invited :30 min\* (27+3)

Contributed :20 min (18+2)

\*some invited speaker could be given 20 min slot, this is merely because of the flow in the session with the specifics related the layout, those with 20 min has the same privileges as an invited speaker.

### Poster Presentations

Poster Hanging Time: Lunch Time

Poster Pickup Time: Dinner Time

Poster Size: Width (90cm)

Height (100cm)

Poster presentations will be on 5 May Friday and 6 May Saturday, between 18:15 and 19:30.

### Note:

- 1) Please hang your posters to boards indicating your poster (abstract) IDs
- 2) Posters not picked up on time will be taken away by the hotel staff.
- 3) Please note that poster size should not exceed the dimensions mentioned above.

**Note:** The rooms are equipped with the following audio-visual equipment:

- 1) Data projector
- 2) PC with PowerPoint (Office 2016 and Windows 10).
- 3) Speakers will not be allowed to use their personal computers for the presentation.
- 4) Speakers are requested to upload their presentations ahead of the session, preferably one day before the session.



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## ORAL PRESENTATIONS



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04.05.2023 THURSDAY				
Opening Ceremony and Public Outreach				
14:00-14:30	Opening Speeches			
Hall 1	Plenary Session & Public Outreach			Xerman de la Fuente
				Ali Bozbey
	INV/C	Presentation Title	Abst. ID	Presenter & Affiliation
14:30-15:15	C	Possibility of Sustainable Development with Emerging Quantum Technologies	650	Ali Gencer Ankara University Türkiye
15:15-16:00	PLN	Quantum Feedback Enhanced Metrology	597	Irfan Siddiqi UC Berkeley, USA USA
16:00-16:30	COFFEE BREAK			
16:30-17:15	PLN	Global Room-Temperature Superconductivity in Graphite	600	Valerii Vinokur Terra Quantum AG USA
17:15-18:00	PLN	Organic-based Magnets - New Magnetic Materials for this Millennium	99	Joel Miller University of Utah USA
The End of Opening Ceremony and Public Outreach				
18:00-19:00	WELCOME COCKTAIL and CULTURAL PRESENTATIONS			
19:00-21:30	DINNER			



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05.05.2023 FRIDAY / Plenary Talks				
Hall 1	Plenary Session II			İbrahim Belenli
				Javier Campo
	INV/C	Presentation Title	Abst. ID	Presenter & Affiliation
09:00-09:15	Welcome Address by the Organizers			ICSM2023
09:15-10:00	PLN	Advances in Understanding Radiation Damage of Coated Conductors for Fusion Energy	192	Susie Speller University of Oxford United Kingdom
10:00-10:45	PLN	Molecular Spin Qubits for Quantum Computer and High-Density Memory Devices Based on Molecular Magnets	109	Masahiro Yamashita Tohoku University Japan
10:45-11:00	COFFEE BREAK			
11:00-11:45	PLN	Optimizing Flux-pinning via Engineering Nanoscale Defects in Coated Conductors	162	Amit Goyal University At Buffalo (SUNY-Buffalo) USA
11:45-12:30	PLN	Superconducting Global Alliance for zero emission targets by 2050	207	Ziad Melhem Oxford Quantum Solutions Ltd United Kingdom
12:30-14:00	LUNCH			
Hall 1	Half-Plenary Session I			Oleksandr Dobrovolskiy
				Mehmet Ali Aksan
	INV/C	Presentation Title	Abst. ID	Presenter & Affiliation
14:00-14:40	HPLN	Superconductor 3D Nanoarchitectures: Topological and Geometrical Effects	211	Vladimir Fomin Leibniz Institute for Solid State and Materials Research (IFW) Dresden, Institute for Integrative Na Germany
14:40-14:50	SHORT BREAK			
Hall 2	Half-Plenary Session II			Javier Campo
				Mustafa Akdogan
	INV/C	Presentation Title	Abst. ID	Presenter & Affiliation
14:00-14:40	HPLN	Control of Spin Waves by One-Dimensional Magnetic Solitons	494	Victor Laliena ICMA - Universidad de Zaragoza Spain
14:40-14:50	SHORT BREAK			





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06.05.2023 SATURDAY / Plenary Talks				
Hall 1	Plenary Session III		Ali Bozbey	
			Thore Posske	
	INV/C	Presentation Title	Abst. ID	Presenter & Affiliation
08:30-09:15	PLN	Bottom-Up Design of Unconventional Superconductors in Magnet-Superconductor Hybrid Systems	95	Roland Wiesendanger University of Hamburg Germany
09:15-09:30	SHORT BREAK			
Hall 1	Half-Plenary Session III		Toni Shiroka	
			Ozgur Ozturk	
	INV/C	Presentation Title	Abst. ID	Presenter & Affiliation
14:00-14:40	INV	Chirality and Topology of Spin System	182	Katsuya Inoue CResCent and WPI-SKCM2, Hiroshima University Japan
14:40-14:50	SHORT BREAK			
Hall 2	Half-Plenary Session IV		Vladimir Fomin	
			Hakan Yetis	
	INV/C	Presentation Title	Abst. ID	Presenter & Affiliation
14:00-14:40	HPLN	Ultra-fast Vortex Dynamics in Nanoengineered Superconductors	110	Oleksandr Dobrovolskiy University of Vienna Austria
14:40-14:50	SHORT BREAK			
06.05.2023 SATURDAY / Special Session				
Hall 1	Special Memorial Session - Milestone Contributions of Alex Muller		Ali Gencer	
			Xerman De la Fuente	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
21:00-21:20	INV	TBA	656	Antonio Bianconi RICMASS Italy
21:20-21:40	INV	TBA	662	Davor Pavuna EPFL Switzerland
21:40-22:00	INV	TBA	664	Ivan Bozovic Brookhaven National Laboratory USA
22:00-22:30		Free Discussion - Contributions from the attendees		



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07.05.2023 SUNDAY / Plenary Talk				
Hall 1	Plenary Session IV		Xerman De la Fuente	
			Şükrü Çelik	
	INV/C	Presentation Title	Abst. ID	Presenter & Affiliation
08:30-09:15	PLN	Surprises in the HP Synthesis of HTSC Cuprate Materials. Substitutions in RuSr2RECu2O8: Lanthanide Contraction, Redox behavior & Order-Disorder	140	Miguel Alario-Franco Universidad Complutense Spain
09:15-09:30	COFFEE BREAK			
07.05.2023 SUNDAY/ Special Panel				
Hall 1	Special Panel: Advances and Challenges in Superconductivity Research and Application		Ziad Melhem	
			Ali Gencer	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
21:00 - 21:15		TBA		
21:15 - 21:30		TBA		
21:30 - 21:45		TBA		
21:45 - 22:15		TBA		
22:15 - 22:45	I	Free Discussion - Contributions from the attendees		



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08.05.2023 MONDAY / Plenary Talks				
Hall 1	Plenary Session V			Davor Pavuna
				Neven Barisic
	INV/C	Presentation Title	Abst. ID	Presenter & Affiliation
08:30-09:15	PLN	HTS cuprates: New Advances toward Understanding and Applications	542	Ivan Bozovic Brookhaven National Laboratory USA
09:45-10:00	COFFEE BREAK			
Hall 1	Half-Plenary Session V			Can Onur Avcı
				Mustafa Öztürk
	INV/C	Presentation Title	Abst. ID	Presenter & Affiliation
14:00-14:40	HPLN	Spin and Orbital Currents in Dirac Semimetals and Topological Insulators	501	Masamitsu Hayashi The University of Tokyo Japan
14:40-14:50	SHORT BREAK			
Hall 2	Half-Plenary Session VI			Davor Pavuna
				Semsettin Turkoz
	INV/C	Presentation Title	Abst. ID	Presenter & Affiliation
14:00-14:40	HPLN	Experimentally Established Universal and Non-Universal Properties that Define the Physics of Cuprates	400	Neven Barisic TU Wien and PMF Zagreb Austria
14:40-14:50	SHORT BREAK			
Hall 1	Plenary Session VI			Arcady Zhukov
				Can Onur Avcı
	INV/C	Presentation Title	Abst. ID	Presenter & Affiliation
18:15-19:00	PLN	Chiral Spintronics	554	Stuart Parkin Max Planck Institute of Microstructure Physics Germany



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08.05.2023 MONDAY/ Special Panel				
Hall 1	Special Panel: Advances and Challenges in Magnetism Research and Applications		Arcady Zhukov	
			Can Onur Avcı	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
21:00 - 21:15		TBA		
21:15 - 21:30		TBA		
21:30 - 21:45		TBA		
21:45 - 22:15		TBA		
22:15 - 22:45	I	Free Discussion - Contributions from the attendees		



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09.05.2023 TUESDAY / Plenary Talks				
Hall 1	Plenary Session VII			Tuson Park
				Canan Aksoy
	INV/C	Presentation Title	Abst. ID	Presenter & Affiliation
08:30-09:15	PLN	Searching for New Electronic Properties in Ultrathin Films of Correlated Materials via in situ ARPES	142	Changyoung Kim Seoul National University South Korea
09:15-09:30	SHORT BREAK			
Hall 1	Half-Plenary Session VII			Can Onur Avcı
				Vivek Amin
	INV/C	Presentation Title	Abst. ID	
14:00-14:40	HPLN	Spin-orbit Torque Switching of Magnetic Tunnel Junctions for Memory Applications	556	Kevin Garelo SPINTEC France
14:40-14:50	SHORT BREAK			
Hall 2	Half-Plenary Session VIII			Javier Campo
				Sukru Cavdar
	INV/C	Presentation Title	Abst. ID	Presenter & Affiliation
14:00-14:40	HPLN	Design of Strongly Correlated Quantum Materials	475	Ryan Baumbach National High Magnetic Field Laboratory and Florida State University USA
14:40-14:50	SHORT BREAK			
Hall 1	Plenary Session VIII			Iida Kazumasa
				Akiyasu Yamamoto
	INV/C	Presentation Title	Abst. ID	Presenter & Affiliation
18:15-19:00	PLN	Recent Advances in Iron-Based Superconducting Materials	495	Yanwei Ma Chinese Academy of Sciences China



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10.05.2023 WEDNESDAY / Plenary Talks				
Hall 1	Plenary Session IX		Yasuharu Kamioka	
			Hakan Yetis	
	INV/C	Presentation Title	Abst. ID	Presenter & Affiliation
08:30-09:15	PLN	Complexity and Spin-Orbit Coupling Favoring High Tc Superconductivity in Natural and Artificial Heterostructures	656	Antonio Bianconi RICMASS Italy
09:15-09:30	SHORT BREAK			
Hall 1	Plenary Session X		Xerman De la Fuente	
			Serap Safran	
	INV/C	Presentation Title	Abst. ID	Presenter & Affiliation
14:00-14:45	PLN	Perpendicular Magnetic Anisotropy Induced by An Intersite Charge Transfer	546	Hiroshi Kageyama Kyoto University Japan
14:45-15:30	PLN	Recent Advances in Cryogenics	524	Ernst Stautner GE Research USA
15:30-15:40	SHORT BREAK			
10.05.2023 WEDNESDAY/ Closure Session				
Hall 1	Special Closure Panel: Rewiev of ICSM 2023 Highlights		Ali Gencer	
			Ivan Bozovic	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
15:40 - 15:50	I	Introduction to the special closure panel		Ivan Bozovic
15:50 - 16:00	I	Review of materials advances		German de la Fuente
16:00 - 16:10	I	Review of magnetism and magnetic materials		Javier Campo
16:10 - 16:20	I	Review of topological superconductivity		Davor Pavuna
16:20 - 16:30	I	Review of large scale applications		Kevin Berger
16:30 - 16:40	I	Review of electronic applications		Pascal Febvre
16:40 - 16:50	I	Review of spintronics and other advances		Alexander Golubov





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05.05.2023 FRIDAY / Hall: Hall 1				
09:15-12:30	PLENARY SESSION II			
12:30-14:00	LUNCH BREAK			
14:00-14:40	HALF PLENARY I & HALF PLENARY II			
14:40-14:50	SHORT BREAK			
Hall 1	Superconductivity and Magnetism in 3D Nanoarchitectures-I		Vladimir Fomin	
			Oleksandr Dobrovolskiy	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Nano-Engineered High-Temperature Superconductors and Hybrid Systems for Energy-Efficient Functional Devices	508	Anna Palau Institut de Ciència de Materials de Barcelona, ICMAB-CSIC Spain
15:20-15:50	INV	Tuning Domain Wall Behaviour in three Dimensional Nanostructures	197	Claire Donnelly Max Planck Institute for Chemical Physics of Solids Germany
15:50-16:20	INO	Simulation of direct-write Fabrication with Focused Electron Beams for 3D Nanoarchitectures	187	Michael Huth Goethe University Germany
16:20-16:30	COFFEE BREAK			
Hall 1	Superconductivity and Magnetism in 3D Nanoarchitectures-II		Anna Palau	
			Claire Donnelly	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:30-17:00	INV	Geometrically Curved, Skin-Conformal and Self-Healable Magneto-electronics	88	Denys Makarov Helmholtz-Zentrum Dresden-Rossendorf Germany
17:00-17:20	C	Nano- and Flexomagnetism of Magnetoelectric Cr2O3 Antiferromagnets	89	Denys Makarov Helmholtz-Zentrum Dresden-Rossendorf Germany
17:20-17:50	INV	Local and Nonlocal Effects of Geometry in Curvilinear Magnetic Nanoarchitectures	266	Oleksandr Pylypovskyi Helmholtz-Zentrum Dresden-Rossendorf e.V. Germany
18:15-19:30	POSTER & DISCUSSION SESSION			
Social Program				



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05.05.2023 FRIDAY / Hall: Hall 2				
09:15-12:30	PLENARY SESSION II			
12:30-14:00	LUNCH BREAK			
14:00-14:40	HALF PLENARY I & HALF PLENARY II			
14:40-14:50	SHORT BREAK			
Hall 2	Topological Quantum Matter-I		Valerii Vinokur	
			Gaku Eguchi	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Infinite Symmetry, Failure of Localization and the Phases of 2D Gapped Quantum Matter	193	Carlo Trugenberger SwissScientific Technologies SA Switzerland
15:20-15:50	INV	Topological Gauge Theories of Josephson Junction Arrays	204	Cristina Diamantini University of Perugia Italy
15:50-16:20	INV	The Effect of Laser Light on Cooper-pair Insulator	131	Alexey Mironov Terra Quantum AG Switzerland
16:20-16:30	COFFEE BREAK			
Hall 2	Topological Quantum Matter-II		Valerii Vinokur	
			Carlo Trugenberger	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:30-17:00	INV	Weyl Kondo Semimetals and Their Relation to other Topological States	460	Gaku Eguchi Institute of Solid State Physics, TU Wien Austria
17:00-17:20	C	Ultrafast Dynamics of Topological Semimetals: From Weyl Node Annihilation to Topological Phase Transition	435	Jimin Zhao Chinese Academy of Sciences China
17:20-17:40	C	Intertype Superconductivity in Ferromagnetic Superconductors	381	Arkady Shanenko HSE University Russia
17:40-18:00	INV	Spectral Resolution of an Ultrafast Microwave Spectrum Analyzer Based on a Sweep-tuned spin-torque Nano-oscillator	365	Andrei Slavin Oakland University USA
18:15-19:30	POSTER & DISCUSSION SESSION			
Social Program				



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05.05.2023 FRIDAY / Hall: Hall 3				
09:15-12:30	PLENARY SESSION II			
12:30-14:00	LUNCH BREAK			
14:00-14:40	HALF PLENARY I & HALF PLENARY II			
14:40-14:50	SHORT BREAK			
Hall 3	New Phenomena and Applications in Molecular Magnets-I		Javier Campo	
			Samuel Manas-Valero	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Polarized Neutron Diffraction: A Key Tool to Probe Spin Density and Local Anisotropy in Molecular Based Magnets	98	Arsen Goukassov Leon Brillouin Laboratory, CEA-CNRS France
15:20-15:50	INV	Modification of the Ground State total Spin in Cr10 Single-molecule Wheels Induced by Deposition on a Metallic Substrate	199	Javier Rubín CSIC-University of Zaragoza Spain
15:50-16:20	INV	Chirality, Molecules and Magnetism	433	Prasanna Ghalsasi The M S University of Baroda India
16:20-16:30	COFFEE BREAK			
Hall 3	New Phenomena and Applications in Molecular Magnets-II		Javier Campo	
			Javier Rubin	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:30-17:00	INV	Strain Switching in van der Waals Heterostructures Triggered by a Spin-Crossover Metal–Organic Framework	364	Samuel Mañas-Valero University of Valencia Spain
17:00-17:20	C	Quantum Criticality and Anomalous Magnetization in a Purely Organic Spin Ladder	299	Miguel Pardo-Sainz CSIC-Universidad de Zaragoza Spain
17:20-17:40	C	Bicomponent Ion-Pair Complexes [Mn(5-Hal-sal2323)]2[ReCl6] (Hal = Cl, Br) Exhibiting Both Thermally Induced Spin Crossover and Field-Induced Single-Ion Magnetism	250	Anna Kazakova Russian Academy of Sciences Russia
17:40-18:00	C	Nonlinear Harmonics of Magnetic Susceptibility and Effect of Ferromagnetic Particl Arrays on Co2+ Single Ionic Magnetic Relaxation	497	Roman Morgunov Federal Research Center of Problems of Chemical Physics and Medical Chemistry Russia
18:15-19:30	POSTER & DISCUSSION SESSION			
Social Program				



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05.05.2023 FRIDAY / Hall: Hall 4				
09:15-12:30	PLENARY SESSION II			
12:30-14:00	LUNCH BREAK			
14:00-14:40	HALF PLENARY I & HALF PLENARY II			
14:40-14:50	SHORT BREAK			
Hall 4	Vortex Matter, Dynamics and Pinning-I		Adrian Crisan	
			Christelle Kadlec	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Vortex pinning at High Frequencies in Superconductors: a Comparative Study	127	Nicola Pompeo University Roma Tre Italy
15:20-15:50	INV	The Role of the Pinning Crossover in the Non-Monotonic Magnetic Behaviors of Type-II Superconductors	85	Massimiliano Polichetti University of Salerno Italy
15:50-16:20	INV	Vortex Pinning by Particle Irradiation Induced Defects	112	Daniele Torsello Politecnico di Torino Italy
16:20-16:30	COFFEE BREAK			
Hall 4	Vortex Matter, Dynamics and Pinning-II		Nicola Pompeo	
			Massimiliano Polichetti	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:30-17:00	INV	Determination of the Vortex Mass in High-Temperature Superconductors Using THz Circularly Polarized Light	130	Christelle Kadlec Czech Academy of Sciences Czech Republic
17:00-17:20	INV	Vortex Dynamics and Pinning in CaKFe4As4 Single Crystals from DC Magnetic Relaxation and AC Susceptibility Studies	92	Adrian Crisan National Institute of Materials Physics Bucharest-Magurele Romania
17:20-17:40	C	Tunable Flux Quantum of Vortices in Type-I and Type-II Superconductors	406	Junyi Ge Shanghai University China
17:40-18:00	C	Vortex Pattern Transition In Superconducting Strips: From 1D to 2D lattice	434	Tian He Shanghai University China
18:15-19:30	POSTER & DISCUSSION SESSION			
Social Program				



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05.05.2023 FRIDAY / Hall: Hall 5				
09:15-12:30	PLENARY SESSION II			
12:30-14:00	LUNCH BREAK			
14:00-14:40	HALF PLENARY I & HALF PLENARY II			
14:40-14:50	SHORT BREAK			
Hall 5	Superconducting Motors and Applications in Electrical Engineering-I		Kevin Berger	
			Taketsune Nakamura	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Realization and tests of a Synchronous Generator with HTS Armature Windings	150	Hocine Menana University of Lorraine, Research Group in Electrical Engineering of Nancy (GREEN) France
15:20-15:50	INV	Electromagnetic Design of Ultra-High Speed Superconducting Motors Applied for Electric Pumps in Liquid-Propellant Rockets	262	Yutaka Terao The University of Tokyo Japan
15:50-16:20	INV	Test Results of 90 kW HTS Generator for Small-scale Demonstrator of Generating System	378	Nikolay Ivanov Moscow Aviation Institute Russia
16:20-16:30	COFFEE BREAK			
Hall 5	Superconducting Motors and Applications in Electrical Engineering-II		Kevin Berger	
			Hocine Menana	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:30-17:00	INV	The Design of an Experimental Prototype of a Fully Superconducting Electric Machine with HTS-2G Stationary Windings	274	Roman Ilyasov Moscow Aviation Institute Russia
17:00-17:30	INV	Optimum Drive Condition for High Temperature Superconducting Induction/ Synchronous Motor and PWM Full-bridge Inverter System	280	Taketsune Nakamura Kyoto University Japan
18:15-19:30	POSTER & DISCUSSION SESSION			
Social Program				



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05.05.2023 FRIDAY / Hall: Hall 6				
09:15-12:30	PLENARY SESSION II			
12:30-14:00	LUNCH BREAK			
14:00-14:40	HALF PLENARY I & HALF PLENARY II			
14:40-14:50	SHORT BREAK			
Hall 6	Superconducting, Magnetic, Topological Arsenides and Tellurides-I		Vladimir Pudalov	
			Leonardo Degiorgi	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:10	INV	Magnetism and Band Structure of EuCd2As2	504	Ana Akrap University of Fribourg Switzerland
15:10-15:30	INV	Crystal Growth, Magnetotransport Properties, and Tunneling Spectroscopy of Alkali Metal Based Na(Fe,Co)As Pnictides	388	Tatiana Kuzmicheva Lebedev Physical Institute, RAS Russia
15:30-15:50	INV	Synthesis of Iron-Based Superconductors by Mechanical Alloying	291	Kirill Pervakov Lebedev Physical Institute, RAS Russia
15:50-16:10	C	Defects Influence on Superconducting Properties in EuRbFe4As4 Compound	295	Vladimir Vlasenko Lebedev Physical Institute, RAS Russia
16:10-16:30	COFFEE BREAK			
Hall 6	Superconducting, Magnetic, Topological Arsenides and Tellurides-II		Tatiana Kuzmicheva	
			Ana Akrap	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:30-17:00	INV	Optical Fingerprints of the Electronic Band Reconstruction in van der Waals Magnetic Materials	87	Leonardo Degiorgi ETH Zürich Switzerland
17:00-17:20	C	Direct observation of Spin Exciton in Superconducting Oxypnictides by Andreev Spectroscopy	319	Tatiana Kuzmicheva Lebedev Physical Institute, RAS Russia
17:20-17:40	C	SnAs-based Topological and Superconducting Materials and Heterostructures	379	Kirill Pervakov Lebedev Physical Institute, RAS Russia
17:40-18:00	C	A Puzzle of Negative Magnetoresistance in Layered AFM Topological Semimetal EuSn2As2	108	Vladimir Pudalov Lebedev Physical Institute, RAS Russia
18:15-19:30	POSTER & DISCUSSION SESSION			
Social Program				





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06.05.2023 SATURDAY / Hall: Hall 1				
08:30 - 09:15	PLENARY SESSION III			
09:15 - 09:30	COFFEE BREAK			
Hall 1	Topological Superconductivity, Majorana Modes and Topological Quantum Computation			Roland Wiesendanger
				Toni Shiroka
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Braiding of Majorana Zero Modes in Topological Superconductors	203	Stephan Rachel University of Melbourne Australia
10:00-10:30	INV	Artificial Atomic Structures on Superconductors for Engineering Quantum States: Theoretical Insights	184	Thore Posske Universität Hamburg Germany
10:30-10:50	C	Majorana Vortex Modes in Magnet-Superconductor Hybrids with a Triangular Lattice: Local Density of States Study	311	Anton Zlotnikov Kirensky Institute of Physics Russia
10:50 - 11:00	COFFEE BREAK			
Hall 1	Topological and Unconventional Superconductivity			Roland Wiesendanger
				Stephan Rachel
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:00-11:30	INV	Fraunhofer Pattern in the Presence of Majorana and Andreev Bound States	312	Patrik Recher Technical University Braunschweig Germany
11:30-12:00	INV	Topology Enabled Unconventional Superconductivity in a Time-Reversal Symmetry Breaking Bulk Superconductor	93	Valentin Taufour University of California Davis USA
12:00-12:30	INV	Unconventional Superconductivity in Topological Kramers Nodal-line Semimetals	136	Toni Shiroka Laboratorium für Festkörperphysik ETH Switzerland
12:30 - 14:00	LUNCH BREAK			
14:00 - 14:40	HALF PLENARY III & HALF PLENARY IV			
14:40 - 14:50	SHORT BREAK			



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Hall 1	Topological and Low-Dimensional Superconductivity-I		Roland Wiesendanger	
			Thore Posske	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Berezinskii–Kosterlitz–Thouless Transition in the Type-I Weyl Semimetal PtBi <sub>2</sub>	409	Bernd Buechner IFW Dresden Germany
15:20-15:50	INV	Protection of Ising spin-orbit Coupling in Bulk Misfit Superconductors	408	Peter Samuely Slovak Academy of Sciences Slovakia
15:50-16:20	INV	High-Temperature Polaronic Lattice Distortions and Charge Ordering in 1T-TaS <sub>2</sub>	129	Emil Bozin Brookhaven National Laboratory USA
16:20 - 16:30	COFFEE BREAK			
Hall 1	Topological and Low-Dimensional Superconductivity-II		Roland Wiesendanger	
			Emil Bozin	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:30-17:00	INV	The Importance of Electronic Excitations in the Generation of Hidden Phases in Magnetite	232	Benoit Truc EPFL Switzerland
17:00-17:30	INV	Evidence for Unconventional Superconductivity and Nontrivial Topology in PdTe	3	Rongying Jin University of South Carolina USA
17:30-17:50	C	The Features of Excitation Spectrum in Interacting Majorana Wires of BDI Class	238	Maksim Shustin L. D. Landau Institute for Theoretical Physics Russia
18:15-19:30	POSTER & DISCUSSION SESSION			
19:00-21:30	DINNER			
21:00-22:30	Special Memorial Session - Milestone Contributions of Alex Muller			



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06.05.2023 SATURDAY / Hall: Hall 2				
08:30 - 09:15	PLENARY SESSION III			
09:15 - 09:30	COFFEE BREAK			
Hall 2	High Tc Superconductors and Related Compounds-I			Davor Pavuna
				Neven Barisic
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	High Tc Superconductivity: The Endgame and Beyond	170	Tonica Valla Donostia International Physics Center Spain
10:00-10:30	INV	Evidence for Strong-coupling Superconductivity in Alkali-fulleride Films	391	Lexian Yang Tsinghua University China
10:30-11:00	INV	Roles of the Two Electronic Subsystems in high-Tc Cuprates - an Optical Spectroscopy Perspective	239	Naveen Kumar Chogondahalli Muniraju Physics Polish Academi of Sciences Poland
11:00 - 11:10	COFFEE BREAK			
Hall 2	High Tc Superconductors and Related Compounds-II			Davor Pavuna
				Tonica Valla
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:10-11:40	INV	Magnetic Field – Assisted Charge Stripes	163	Danko Radić University of Zagreb Croatia
11:40-12:10	INV	Ultrafast Dynamics in (Li <sub>0.84</sub> Fe <sub>0.16</sub> )OHFe <sub>0.98</sub> Se and single-layer FeSe/SrTiO <sub>3</sub> : Correlation between Tc and the EPC Strength	426	Jimin Zhao Chinese Academy of Sciences China
12:10-12:40	INV	Anomalous Magnetic Excitations in the Half-filled TI-based Cuprate	228	Izabela Biało University of Zurich Switzerland
12:40 - 14:00	LUNCH BREAK			
14:00 - 14:40	HALF PLENARY III & HALF PLENARY IV			
14:40 - 14:50	SHORT BREAK			



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Hall 2	Thin Films and Interface Superconductivity		Neven Barisic	
			Danko Radic	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	C	Correlated Disorder as a Way Towards Robust Superconductivity	248	Andrey Krasavin HSE University Russia
15:20-15:40	C	Superconductor-Insulator Transition Under In-plane Magnetic Field	253	Michal Šindler Academy of Sciences of the Czech Republic, Czech Republic
15:40 - 16:00	COFFEE BREAK			
Hall 2	Flux Pinning in Coated Conductors		Amit Goyal	
			Michal Šindler	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:00-16:30	INV	Steered Flux Dynamics in Laser Nanostructured Superconducting Thin Films	505	Antonio Badia Majos University of Zaragoza Spain
16:30-17:00	INV	Structure and Flux Pinning of EuBaCuO <sub>7-δ</sub> -BaHfO <sub>3</sub> nano-composite Films Deposited by Ultra-fast Pulse Laser Deposition Technique	514	Yue Zhao Shanghai Jiao Tong University China
17:00-17:30	INV	High J <sub>c</sub> and Strong Flux-Pinning in Long-Length HTS Wires at SuperOx	522	Pavel Degtyarenko Joint Institute for High Temperature of the Russian Academy of Sciences Russia
17:30-18:00	INV	HTS Tape for Fusion Magnets	592	Brian Moeckly Commwealth Fusion Systems USA
18:15-19:30	POSTER & DISCUSSION SESSION			
19:00-21:30	DINNER			
21:00-22:30	Special Memorial Session - Milestone Contributions of Alex Muller			



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06.05.2023 SATURDAY / Hall: Hall 3				
08:30 - 09:15	PLENARY SESSION III			
09:15 - 09:30	COFFEE BREAK			
Hall 3	New Phenomena and Applications in Molecular Magnets-III			Joel Miller
				Masahito Mochizuki
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Neutron Scattering Experiments with High Magnetic Fields in Organic Magnets	424	Javier Campo Spanish National Research Council (CSIC) Spain
10:00-10:30	INV	Molecular Nanospintronics: Theory Shakes Hands with Experiment	362	Lefkidis Georg RTPU Kaiserslautern-Landau Germany
10:30-11:00	INV	Quantum Spin States in Frustrated Magnets Made of Organic Radicals	562	Yuko Hosokoshi Osaka Metropolitan University Japan
11:00 - 11:10	COFFEE BREAK			
Hall 3	Chiral Magnetism: Solitons and Skyrmions I			Javier Campo
				Victor Laliena
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:10-11:40	INV	Dynamical Switching, Creation, and Manipulation of Topological Magnetism in Spin-Charge Coupled Magnets	251	Masahito Mochizuki Waseda University Japan
11:40-12:00	C	New Incommensurate Magnetic Phases in the Multiferroic Compound MnCr <sub>2</sub> O <sub>4</sub>	440	Miguel Pardo-Sainz CSIC-Universidad de Zaragoza Spain
12:00-12:20	C	Synthesis of Ni-Zn ferrites by Microwave Decomposition of Layered Double Hydroxides for the Functionalization of Porcelain Substrates	412	Abderrahim Lahlahi Attalhaoui PhD Researcher Spain
13:00 - 14:00	LUNCH BREAK			
14:00 - 14:40	HALF PLENARY III & HALF PLENARY IV			
14:40 - 14:50	SHORT BREAK			



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Hall 3	Nanocomposites: Properties and Applications		Ramadan Awad	
			Mehmet Ali Aksan	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Recent Advances in Nanocomposites: Properties and Applications	324	Ramadan Awad Beirut Arab University Lebanon
15:20-15:40	C	Structural and Magnetic Investigation of Novel Soft/Soft (1-x)MgFe <sub>2</sub> O <sub>4</sub> /(x)Mn <sub>1.95</sub> Sn <sub>0.05</sub> O <sub>3</sub> Nanocomposites	297	Nour El Ghouch Beirut Arab University Lebanon
15:40-16:00	C	Magnetic Study on YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> Nanoparticles Doped by Ferromagnetic Nanoparticles of Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> .	78	Samir Khene Radiation Physics Laboratory,Badji Mokhtar University Algeria
16:00-16:20	C	Tailoring Properties in Rare Earth Mischmetal (MMNd)-Fe-B Permanent Magnets	125	Zubair Ahmed Ibn-e-Sina Institute of Technology Pakistan
16:20-16:30	COFFEE BREAK			
18:15-19:30	POSTER & DISCUSSION SESSION			
19:00-21:30	DINNER			
21:00-22:30	Special Memorial Session - Milestone Contributions of Alex Muller			





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06.05.2023 SATURDAY / Hall: Hall 4				
08:30 - 09:15	PLENARY SESSION III			
09:15 - 09:30	COFFEE BREAK			
Hall 4	Magnetic Recording, Sensors and Microwave Devices			Peter Svec
				Uğur Topal
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Comparison of Fe-B based Metallic Glasses after Long-term room Temperature Ageing	525	Peter Svec Slovak Academy of Sciences Slovakia
10:00-10:30	INV	Stress Tensor Distribution Monitoring & Rehabilitation in Steels	374	Evangelos Hristoforou Laboratory of Electronic Sensors Greece
10:30-10:50	C	Tunable non-trivial Magnetic States in Permalloy Magnetic Strips and Superconducting-ferromagnetic Hybrid Systems	480	Aleix Català ICMAB-CSIC Spain
10:50 - 11:00	COFFEE BREAK			
Hall 4	Advances In Thin Films, Multi-Layers and Patterned Nanostructures-I			Mustafa Ozturk
				Erdem Demirci
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:00-11:30	INV	Laterally Patterned Embedded Magnetic Nanostructures in Fe <sub>60</sub> Al <sub>40</sub>	221	Anna Semisalova University of Duisburg-Essen Germany
11:30-11:50	C	Flexomagnetic Effects in Antiferromagnetic Epitaxial Cr <sub>2</sub> O <sub>3</sub> Thin Films	317	Pavlo Makushko Helmholtz-Zentrum Dresden-Rossendorf Germany
11:50-12:10	C	Adjustment of the Correct Coercivity Values of Exchange-Biased Films by the Stoner-Wohlfarth Model	529	Maxim Bakhmetiev Russian Academy of Sciences Russia
12:10-12:30	C	Thin Film Superconducting Magnetic Field Concentrator of Planar Design	476	Levan Ichkitidze National Research University of Electronic Technology Russia
12:30 - 14:00	LUNCH BREAK			
14:00 - 14:40	HALF PLENARY III & HALF PLENARY IV			
14:40 - 14:50	SHORT BREAK			



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Hall 4	Advances In Thin Films, Multi-Layers and Patterned Nanostructures-II		Mustafa Ozturk	
			Anna Semisalova	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Magneto-Optics, Revisited	165	Rudolf Schäfer Leibniz Institute for Solid State and Materials Research (IFW) Dresden Germany
15:20-15:40	C	Tunneling Hall Effect: Theory And Experiment	560	Evgeny Karashtin Institute for Physics of Microstructures RAS Russia
15:40-16:00	C	NMR Spin Echo of Domain Wall Pinning in Magnets in Combination with an Additional Magnetic Video-Pulse	369	Tsisana Gavasheli Ivane Javakhishvili Tbilisi State University Georgia
16:00-16:20	C	Frequency and Humidity Dependent Electrical Properties of Organic semiconductor based Sensors	544	Muneeb Rahman Islamia College University Peshawar Pakistan
16:20 - 16:30	COFFEE BREAK			
Hall 4	Magnetism of Nanoparticles, Nano-wires and Nanostructures		Hakan Kockar	
			Mustafa Ozturk	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:30-16:50	C	Magnetic and Electronic Properties of Size and Shape Controlled CoFe <sub>2</sub> O <sub>4</sub> Nanoparticles for Biomedical Applications	283	Romulus Tetean Babes-Bolyai University Romania
16:50-17:10	C	Synthesis, Characterization, Magnetic, and Evaluation of the Antibacterial Potential of (Zinc, Cobalt, Magnesium) Ferrite, Chromite and Aluminate Nanoparticles	257	Mahmoud Khalil Beirut Arab University Lebanon
17:10-17:30	C	Magnetic Properties of the Ni and Co-doped MnFe <sub>2</sub> O <sub>4</sub> /SiO <sub>2</sub> Nanocomposites	310	Iosif Deac Babes-Bolyai University Romania
17:30-17:50	C	Magnetic Anisotropy and Exchange Fields in Co Nanoparticles on Copper Surface and Graphene Sheets	275	Serghej Prischepa Belarusian State University of Informatics and Radioelectronics Belarus
17:50-18:10	C	Phytosynthesis and Charasterisation of a new Iron Doped Magnetic Nano-Bioadsorbant	566	Çiğdem Donmez Gungunes Hitit University Türkiye
18:15-19:30	POSTER & DISCUSSION SESSION			
19:00-21:30	DINNER			
21:00-22:30	Special Memorial Session - Milestone Contributions of Alex Muller			



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06.05.2023 SATURDAY / Hall: Hall 5				
08:30 - 09:15	PLENARY SESSION III			
09:15 - 09:30	COFFEE BREAK			
Hall 5	Molecular Spintronics Towards Spin Qubits for Quantum Computer and High Density Memory Devices-I			Shinya Hayami
				Masahiro Yamashita
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Tunable Spin Transitions in Heterometallic Cyanido-bridged Molecular Materials	279	Barbara Sieklucka Jagiellonian University Poland
10:00-10:30	INV	Construction of Coordination Networks for Spin Crossover	420	Kil Sik Min Kyungpook National University South Korea
10:30-11:00	INV	Strongly Correlated Phenomena in Two-Dimensional Coordination Polymers	390	Zhongyue Zhang Kumamoto University Japan
11:00 - 11:10	COFFEE BREAK			
Hall 5	Molecular Spintronics Towards Spin Qubits for Quantum Computer and High Density Memory Devices-II			Kil Sik Min
				Zhongyue Zhang
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:10-11:40	INV	Engineering Spin Excitations in 2D Magnetic Materials	471	José J. Baldoví Instituto de Ciencia Molecular (ICMol), University of Valencia Spain
11:40-12:10	INV	Synthesis of Molecular Nanographenes and Graphene Nanoribbons with Magnetic Properties	478	Akimitsu Narita Okinawa Institute of Science and Technology Graduate University Japan
12:30 - 14:00	LUNCH BREAK			
14:00 - 14:40	HALF PLENARY III & HALF PLENARY IV			
14:40 - 14:50	SHORT BREAK			



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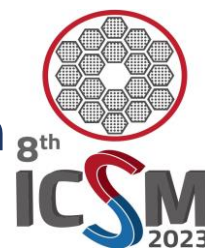


Hall 5	Molecular Spintronics Towards Spin Qubits for Quantum Computer and High Density Memory Devices-III		Masahiro Yamashita	
			Jose J. Baldovi	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Control of Magnetic and Electric Polarization via Electron Transfer in Molecular Crystals	448	Osamu Sato Kyushu University Japan
15:20-15:50	INV	Creation of Co(II) Single-Ion Magnets by Doping into Zn(II) Diamagnetic Metal-Organic Frameworks	370	Masanori Wakizaka Tohoku University Japan
15:50-16:20	INV	Multifunctional Molecular Crystals by Supramolecular Approach	417	Takayoshi Nakamura Research Institute for Electronic Science, Hokkaido University Japan
16:20 - 16:30	COFFEE BREAK			
Hall 5	Molecular Spintronics Towards Spin Qubits for Quantum Computer and High Density Memory Devices-IV		Akimitsu Narita	
			Osamu Sato	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:30-17:00	INV	Hybrid Polyoxometalate Redox Materials	459	Graham Newton University of Nottingham United Kingdom
17:00-17:30	INV	Magnetic Properties for cobalt(II) and iron(II) SCO Compounds	449	Shinya Hayami Kumamoto University Japan
17:30-18:00	INV	Strategies of Using Cyanido Metal Complexes for Constraining the Lanthanide(III) Geometry towards Single-Molecule Magnets	269	Szymon Chorazy Jagiellonian University Poland
18:15-19:30	POSTER & DISCUSSION SESSION			
19:00-21:30	DINNER			
21:00-22:30	Special Memorial Session - Milestone Contributions of Alex Muller			



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06.05.2023 SATURDAY / Hall: Hall 6				
08:30 - 09:15	PLENARY SESSION III			
09:15 - 09:30	COFFEE BREAK			
Hall 6	Superconductivity and Magnetism in 3D Nanoarchitectures-III			Alejandro Silhanek
				Joris Van de Vondel
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Direct Observation of a Superconducting Vortex Diode	151	Yonathan Anahory The Hebrew University of Jerusalem Israel
10:00-10:30	INV	Fabrication of Nanostructures for Advanced Vortex Pinning in High-Tc Superconductors	124	Bernd Aichner University of Vienna Austria
10:30-11:00	INV	Frequency-locking in Superconducting Nanotubes and Nanoribbons under Modulated Transport Current and Magnetic Field	223	Igor Bogush Moldova State University Moldova
11:00 - 11:10	COFFEE BREAK			
Hall 6	Superconductivity and Magnetism in 3D Nanoarchitectures-IV			Yonathan Anahory
				Bernd Aichner
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:10-11:40	INV	Domino Effect of Thermomagnetic Instabilities in Superconducting Films with Multiply-Connected Topological Structures	225	Alejandro Silhanek Université de Liège Belgium
11:40-12:10	INV	Nanobridge SQUIDs as Multilevel Memory Elements	349	Joris Van de Vondel KU LEUVEN Belgium
12:10-12:40	INV	Experiments and Simulations on Spin Dynamics in Magnetochiral Nanotubes and Ferromagnetic 3D Nanonetworks	302	Dirk Grundler Ecole Polytechnique Federale de Lausanne Switzerland
12:40 - 14:00	LUNCH BREAK			
14:00 - 14:40	HALF PLENARY III & HALF PLENARY IV			
14:40 - 14:50	SHORT BREAK			



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Hall 6	Superconductivity and Magnetism in 3D Nanoarchitectures-V		Dirk Grundler	
			Oleksandr Pylypovskyi	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Curvilinear Magnetism: Fundamentals and Perspectives	76	Denis Sheka Taras Shevchenko National University of Kyiv Ukraine
15:20-15:50	INV	Artificial Chiral Nanostructures for Topological Control of Magnetism: 3D Nanofabrication and X-ray Imaging	222	Naëmi Leo INMA - CSIC/Zaragoza University Spain
15:50-16:20	INV	Tension-free Dirac Strings and Steered Magnetic Charges in 3D Artificial Spin Ice	334	Sabri Koraltan University of Vienna Austria
16:20-16:30	COFFEE BREAK			
Hall 6	Superconductivity and Magnetism in 3D Nanoarchitectures-VI		Naëmi Leo	
			Denis Sheka	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:30-17:00	INV	Microscale Metasurfaces for On-chip Magnetic Flux Concentration	149	Emile Fourneau Experimental Physics of Nanostructured Materials, Q-MAT, CESAM, Université de Liège Belgium
17:00-17:30	C	Probing and Twisting Ferromagnetic CrSBr Monolayers	363	Samuel Mañas-Valero University of Valencia Spain
17:30-18:00	INV	Voltage-Controlled Magnetic Tunnel Junctions for Embedded Memory and Machine Learning	621	Pedram Khalili Northwestern University USA
18:15-19:30	POSTER & DISCUSSION SESSION			
19:00-21:30	DINNER			
21:00-22:30	Special Memorial Session - Milestone Contributions of Alex Muller			





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06.05.2023 SATURDAY / Hall: Hall 7				
08:30 - 09:15	PLENARY SESSION III			
09:15 - 09:30	COFFEE BREAK			
Hall 7	Superconducting Spintronics-I			Alexander Golubov
				Tairzhan Karabassov
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Magnetic Control over the Superconducting Thermoelectric Effect	467	Farkhad Aliev Universidad Autonoma de Madrid Spain
10:00-10:30	INV	Magnetic Field-Induced Mirage Gap and Singlet-triplet Mixing in Ising Superconductors	404	Wolfgang Belzig University of Konstanz Germany
10:30-11:00	INV	Composite Magnons in S/F and S/AF Thin-film Heterostructures	180	Alexander Bobkov Moscow Institute of Physics and Technology Russia
11:00 - 11:10	COFFEE BREAK			
Hall 7	Superconducting Spintronics-II			Alexander Golubov
				Wolfgang Belzig
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:10-11:40	INV	The Unusual Nature of Spin-triplet Supercurrents in Geometrically Curved Josephson Junctions	477	Kaveh Lahabi Leiden University Netherlands
11:40-12:10	INV	Proximity Effect at Superconductor/antiferromagnet Interfaces	126	Irina Bobkova Moscow Institute of Physics and Technology Russia
12:10-12:40	INV	Effects of a Helical State on the Dynamic Properties of the Topological Superconducting	587	Tairzhan Karabassov National Research University Higher School of Economics Russia
12:40 - 14:00	LUNCH BREAK			
14:00 - 14:40	HALF PLENARY III & HALF PLENARY IV			
14:40 - 14:50	SHORT BREAK			



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Hall 7	Superconducting Spintronics-III		Alexander Golubov	
			Valery Ryazanov	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Superconducting Base Elements for Artificial Neural Network	609	Anatolie Sidorenko Institute of Electronic Engineering and Nanotechnologies of Technical University of Moldova Moldova
15:20-15:40	C	Superconductivity in PbTe/SnTe Semiconductor Heterostructure: a Candidate for Spin-triplet Superconductor	479	Paweł Sidorczak University of Warsaw Poland
15:40-16:10	C	Manifestation of Mixed Pairing Symmetry in Superconducting Hybrid Structures	469	Alexander Golubov University of Twente Netherlands
16:10-16:30	COFFEE BREAK			
Hall 7	Superconducting Spintronics-IV		Anatolie Sidorenko	
			Kaveh Lahabi	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:30-17:00	INV	Nonequilibrium and Spin Phenomena in Hybrid Superconductor-Ferromagnet Structures.	555	Valeriy Ryazanov Institute of Solid State Physics, Russian Academy of Sciences Russia
17:00-17:20	C	Observation of Robust Zero-Energy State and Enhanced Superconducting Gap in a Trilayer Heterostructure of MnTe/Bi <sub>2</sub> Te <sub>3</sub> /Fe(Te,Se)	516	Chen Chen Fudan university China
18:15-19:30	POSTER & DISCUSSION SESSION			
19:00-21:30	DINNER			
21:00-22:30	Special Memorial Session - Milestone Contributions of Alex Muller			



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07.05.2023 SUNDAY / Hall: Hall 1				
08:30 - 09:15	PLENARY SESSION IV			
09:15 - 09:30	COFFEE BREAK			
Hall 1	Advances In Magnetism and Related Materials-I			Can Onur Avcı
				Haijiao Harsan Ma
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Magneto-optical Transport Properties of a Semimetal with a Mexican-hat-like Valence Bands in two and three Dimensions	188	Zoran Rukelj University of Zagreb Croatia
10:00-10:20	C	Graphene Spacer in Topological Insulator Bi <sub>2</sub> Te <sub>3</sub> /Graphene/NiFe heterostructures for efficient Spin-Orbit Torques	481	Victor Zatkan Catalan Institute of Nanoscience and Nanotechnology (ICN2) Spain
10:00-10:20	C	Skew Scattering by Magnetic Monopoles and Anomalous Hall effect in Spin-orbit Coupled Systems	231	Hiro Ishizuka Tokyo Institute of Technology Japan
10:40 - 11:00	COFFEE BREAK			
Hall 1	Advances In Magnetism and Related Materials-II			Zoran Rukelj
				Viktor Zatkan
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:00-11:30	INV	Room-Temperature Anomalous Inverse Spin Hall Effect in an Easy-Plane Antiferromagnetic Insulator for Néel-Vector Manipulation and Detection	626	Haijiao Harsan Ma Xidian University China
11:30-12:00	C	Electronic Structure and Magnetic Properties of FeRhSn <sub>1-x</sub> Gex Alloys: ab initio study	421	Oksana Pavlukhina Chelyabinsk State University Russia
12:30-14:15	LUNCH BREAK			
_14:20_	ICSM GROUP PHOTO			
14:30-19:30	Conference Main Excursion			
21:00-22:45	Special Panel: Advances and Challenges in Superconductivity Research and Applications			



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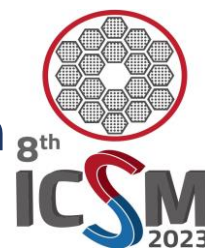


07.05.2023 SUNDAY / Hall: Hall 2				
08:30 - 09:15	PLENARY SESSION IV			
09:15 - 09:30	COFFEE BREAK			
Hall 2	Superconductors Under Extreme Conditions of Pressure and Strain-I			Alexander Shengelaya
				Juergen Haase
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Experimental Studies of Superconducting Hydrides at Ultrahigh Pressures	104	Ivan Troyan Institute for Crystallography RAS Russia
10:00-10:30	INV	Synthesis of Superconductive Lanthanum-Based Hydrides	492	Katsuya Shimizu Osaka University Japan
10:30-11:00	INV	High-Pressure Hydrides and Electron-phonon Superconductivity: questions about the Experiments and questions about the Theory	244	Frank Marsiglio University of Alberta Canada
11:00 - 11:10	COFFEE BREAK			
Hall 2	Superconductors Under Extreme Conditions of Pressure and Strain-II			Alexander Shengelaya
				Rustem Khasanov
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:10-11:40	INV	Unsplit Superconducting and Time Reversal Symmetry Breaking Transitions in Sr <sub>2</sub> RuO <sub>4</sub> under Hydrostatic Pressure and Disorder	166	Rustem Khasanov Laboratory for Muon Spin Spectroscopy, Paul Scherrer Institute, Switzerland
11:40-12:10	INV	Exploration of New Superconductors under high pressures	272	Jinguang Cheng Chinese Academy of Sciences China
12:10-12:40	INV	High Pressure NMR of High-T <sub>c</sub> Cuprates	361	Juergen Haase Leipzig University Germany
12:40-13:00	INV	Using Uniaxial Stress to Probe the Relationship between Competing Superconducting States in a Cuprate with Spin-stripe order	176	Zurab Guguchia Paul Scherrer Institute Switzerland
13:00-14:15	LUNCH BREAK			
_14:20_	ICSM GROUP PHOTO			
14:30-19:30	Conference Main Excursion			
21:00-22:45	Special Panel: Advances and Challenges in Superconductivity Research and Application			



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07.05.2023 SUNDAY / Hall: Hall 3				
08:30 - 09:15	PLENARY SESSION IV			
09:15 - 09:30	COFFEE BREAK			
Hall 3	Chiral Magnetism: Solitons and Skyrmions II			Javier Campo
				Sergey Grigoriev
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Soliton Locking Phenomenon and Magnetic Relaxation in Mono-axial Chiral Magnets	604	Masaki Mito Kyushu Institute of Technology Japan
10:00-10:30	INV	Theoretical Approach to Chirality-Induced Spin Selectivity	500	Jun-ichiro Kishine The Open University of Japan Japan
10:30-11:00	INV	Spin Parity Effect in Monoaxial Chiral Ferromagnetic Chain	135	Yusuke Kato The University of Tokyo Japan
11:00 - 11:10	COFFEE BREAK			
Hall 3	Chiral Magnetism: Solitons and Skyrmions III			Javier Campo
				Yusuke Kato
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:10-11:40	INV	Chiral Magnets Studied by Small-Angle Neutron Scattering and Muon Spin Rotation	418	Kazuki Ohishi Comprehensive Research Organization for Science and Society (CROSS) Japan
11:40-12:10	INV	Effect of Magnitude and Sign of the Dzyaloshinskii-Moriya interaction on Magnetic Structure in helimagnets $\text{Fe}_{1-x}\text{Co}_x\text{Si}$ and $\text{Fe}_{1-x}\text{Co}_x\text{Ge}$	143	Sergey Grigoriev PNPI - NRC KI (Petersburg Nuclear Physics Institute of NRC Kurchatov Institute) Russia
12:10-12:40	INV	Dark Discrete Breather Modes in a Monoaxial Chiral Helimagnet with Easy-Plane Anisotropy	139	Alexander Ovchinnikov Ural Federal University Russia
12:40-14:15	LUNCH BREAK			
_14:20_	ICSM GROUP PHOTO			
14:30-19:30	Conference Main Excursion			
21:00-22:45	Special Panel: Advances and Challenges in Superconductivity Research and Application			



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07.05.2023 SUNDAY / Hall: Hall 4				
08:30 - 09:15	PLENARY SESSION IV			
09:15 - 09:30	COFFEE BREAK			
Hall 4	Cryogenics Materials, Engineering and Applications-I			Yasuharu Kamioka
				Kazuhiro Kajikawa
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	A Method of High Cooling Capacity at 4 K of a Gifford-McMahon Cryocooler with Low Electrical Input	493	Shinji Masuyama National Institute of Technology, Oshima College Japan
10:00-10:30	INV	Hydrogen Cryo-electromagnetics Turning Point for Applied Superconductivity	350	Bartek Glowacki University of Cambridge United Kingdom
10:30-11:00	INV	HTS Devices and Cryogenics for Electric Aircraft and Ships	395	Sastry Pamidi Center for Advanced Power Systems & FAMU-FSU College of Engineering USA
11:00 - 11:10	COFFEE BREAK			
Hall 4	Cryogenics Materials, Engineering and Applications-II			Yasuharu Kamioka
				Shinji Masuyama
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:10-11:40	INV	Development of Superconducting Level Sensors for Liquid Hydrogen with MgB <sub>2</sub> Wires	96	Kazuhiro Kajikawa Sanyo-Onoda City University Japan
11:40-12:00	C	Current Sensors at Cryogenic Temperatures	240	Markus Meindl Friedrich-Alexander-Universität Erlangen-Nürnberg Germany
12:00-12:20	C	A Single Stage Pulse Tube Cryocooler Prototype	617	Ali Gencer Ankara University Türkiye
12:30-14:15	LUNCH BREAK			
_14:20_	ICSM GROUP PHOTO			
14:30-19:30	Conference Main Excursion			
21:00-22:45	Special Panel: Advances and Challenges in Superconductivity Research and Application			





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07.05.2023 SUNDAY / Hall: Hall 5				
08:30 - 09:15	PLENARY SESSION IV			
09:15 - 09:30	COFFEE BREAK			
Hall 5	Superconductivity and Magnetism in 3D Nanoarchitectures-VII			Sawssen Slimani
				Sebastian Lamb-Camarena
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Magnetic Force and Spin-sensitive Electron Microscopies of CoNiB Nanotubes	157	Michal Staňo CEITEC BUT, Brno University of Technology Czech Republic
10:00-10:20	C	Fluxon Counters and Velocimeters upon Nanoengineered Superconductors	337	Barbora Budinská University of Vienna Austria
10:20-10:40	C	Direct Writing of Three-Dimensional Nano-Superconductors	401	Elina Zhakina Max Planck Institute for Chemical Physics of Solids Germany
10:40 - 11:00	COFFEE BREAK			
Hall 5	Superconductivity and Magnetism in 3D Nanoarchitectures-VIII			Michal Staňo
				Oleksandr Pylypovskyi
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:00-11:30	INV	Design Magnetic Nanostructures for Curvilinear Magnetism Study	520	Sawssen Slimani University of Genova, Department of Chemistry and Industrial Chemistry (DCCI) Italy
11:30-11:50	C	Magnonic Conduits by Direct Write Nanofabrication	304	Sebastian Lamb-Camarena University of Vienna Austria
11:50-12:20	INO	In-situ Correlation of the Hall Effect with the Occurrence of Topological Magnetic Phases	183	Sebastian Schneider Dresden Center for Nanoanalysis (DCN), cfaed, TU Dresden Germany
12:20-14:15	LUNCH BREAK			
_14:20_	ICSM GROUP PHOTO			
14:30-19:30	Conference Main Excursion			
21:00-22:45	Special Panel: Advances and Challenges in Superconductivity Research and Application			



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07.05.2023 SUNDAY / Hall: Hall 6				
08:30 - 09:15	PLENARY SESSION IV			
09:15 - 09:30	COFFEE BREAK			
Hall 6	Quantum Information Technology			Olca Kızılaslan
				Canan Aksoy
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Fast Multi-Oscillator Control with a Single Qubit	586	Shay Hacohen-Gourgy Technion - Israel institute of technology Israel
10:00-10:30	INV	Electrically Controlled Crossed Andreev Reflection in Two-Dimensional Antiferromagnets	589	Alireza Qaiumzadeh Norwegian University of Science and Technology Norway
10:30-11:00	INV	Dark Current and Dark Count Rate Dependence on Anode Geometry of InGaAs/InP Single-Photon Avalanche Diodes	610	Rosemary Scowen University of Cambridge United Kingdom
11:00 - 11:10	COFFEE BREAK			
Hall 6	Miscellaneous Topics			Canan Aksoy
				Olca Kızılaslan
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:10-11:30	C	The Effect of Post-Growth Thermal Treatment of Bulk YBCO Superconductor on the Pinning Mechanism	588	Bakiye Çakır Artvin Çoruh University Türkiye
11:30-11:50	C	Durability Test of Parylene C/Polyurethane Based Flexible Capacitive Pressure Sensor	568	Sedat Kurnaz Kastamonu University Türkiye
11:50-12:10	C	Pressure Sensing Properties of Parylene C/Polyurethane Based Piezoresistive Pressure Sensor	569	Özgür ÖZTÜRK Kastamonu University Türkiye
12:10-12:30	C	Recent Improvements in The Fabrication and Measurement Applications of YBCO Bulk Superconductors	590	Sait Guner Recep Tayyip Erdoğan University Türkiye
12:30-12:50	C	Additive Manufacturing of NdFeB Permanent Magnets	294	Viktoria Maltseva Ural Federal University Russia
12:50-14:15	LUNCH BREAK			
_14:20_	ICSM GROUP PHOTO			
14:30-19:30	Conference Main Excursion			
21:00-22:45	Special Panel: Advances and Challenges in Superconductivity Research and Application			



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08.05.2023 MONDAY / Hall: Hall 1				
08:30 - 09:15	PLENARY SESSION V			
09:15 - 09:30	COFFEE BREAK			
Hall 1	Advances In Current-Induced Magnetization Control-I			Can Onur Avcı
				Giacomo Sala
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Current-induced Control of Noncollinear Antiferromagnetic Mn <sub>3</sub> Sn	507	Shunsuke Fukami Tohoku University Japan
10:00-10:30	INV	Nucleation and Dynamics of Chiral Solitons in Topological Materials	527	Oleg Tretiakov University of New South Wales (UNSW) Australia
10:30-11:00	INV	Universality in Thermally-Activated Current-Driven Skyrmion Motion	431	Kab-Jin Kim KAIST South Korea
11:00-11:10	COFFEE BREAK			
Hall 1	Advances In Current-Induced Magnetization Control-II			Byong-Guk Park
				Motomi Aoki
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:10-11:40	INV	Rare-earth Iron Garnets with Perpendicular Magnetic Anisotropy for Efficient Spintronics	611	Can Onur Avcı Institute of Materials Science of Barcelona (ICMAB-CSIC) Spain
11:40-12:10	INV	Orbital Torque and Orbital Magnetoresistance in 3d Transition Metals	415	Giacomo Sala ETH Zürich Switzerland
12:10-12:40	INV	Harnessing Orbital Torque from Orbital-to-spin Conversion Through an Antiferromagnetic Insulator	612	Shilei Ding ETH Zurich Switzerland
12:40-14:00	LUNCH BREAK			
14:00-14:40	HALF PLENARY V & HALF PLENARY VI			
14:40-14:50	SHORT BREAK			



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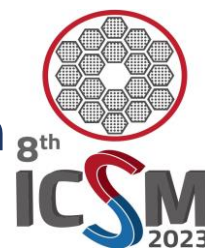


Hall 1	Advances In Current-Induced Magnetization Control-III		Masamitsu Hayashi	
			Can Onur Avcı	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Reduced Field-Free Spin-Orbit Torque Switching Using Out-of-Plane Spin-Polarized Spin Current	470	Byong-Guk Park KAIST South Korea
15:20-15:50	INV	Unconventional Spin-Orbit Torques in Ferromagnetic Trilayers	496	Vivek Amin Indiana University Purdue University USA
15:50-16:20	INV	Anatomy of Spin-orbit Effects at Interfaces Comprising Metals, Oxides and 2D Materials	444	Mairbek Chshiev SPINTEC, Univ. Grenoble Alpes, CNRS, CEA France
16:20-16:30	COFFEE BREAK			
Hall 1	Advances In Current-Induced Magnetization Control-IV		Can Onur Avcı	
			Mairbek Chshiev	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:30-17:00	INV	Geometric Manipulation of Spin Polarization and Spin Orbit Torque	442	Xuepeng Qiu Tongji University China
17:00-17:30	INV	Coexistence of Low-frequency Spin-torque Ferromagnetic Resonance and Unidirectional Spin Hall Magnetoresistance in Spin Torque Ferromagnetic Resonance Signals	437	Yuichiro Ando Kyoto University Japan
17:30-18:00	INV	Observation of Charge-to-spin Conversion in Ferromagnets by means of Spin-orbit Torque	436	Motomi Aoki Kyoto University Japan
18:15-19:00	PLENARY SESSION VI			
19:00-21:00	DINNER			
21:00-22:45	Special Panel: Advances and Challenges in Magnetism Research and Applications			



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08.05.2023 MONDAY / Hall: Hall 2				
08:30 - 09:15	PLENARY SESSION V			
09:15 - 09:30	COFFEE BREAK			
Hall 2	2D Atomically Thin Topological Materials			Junji Haruyama
				Recep Zan
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Design and Control of Topological Phases in Quasi-1D Stacked Materials Investigated by ARPES	605	Takeshi Kondo The University of Tokyo Japan
10:00-10:30	INV	Ising Superconductivity in Bernal Bilayer Graphene with Strong Spin-Orbit Coupling	447	Ludwig Holleis University of California, Santa Barbara USA
10:30-10:50	C	Novel Creation Methods of 2D Topological Insulating States on Atomically Thin Layers	558	Junji Haruyama Aoyama Gakuin University Japan
10:50 - 11:10	COFFEE BREAK			
Hall 2	Theory of Magnetism- Ab-Initio Calculations and Nanomagnetism			Ali Zaoui
				Ludwig Holleis
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:10-11:40	INV	Quantum Muon Effects in Solids and Frustrated Magnets	486	Matjaž Gomilšek Jožef Stefan Institute & University of Ljubljana Slovenia
11:40-12:10	INV	A Quasiparticle Picture of Attempt Frequency and Magnetocrystalline Anisotropy	580	Matt Probert University of York United Kingdom
12:10-12:30	C	Quantum Properties of the Toroidal Dipole	489	Dragos-Victor Anghel Horia Hulubei National Institute of Physics Romania
12:40 - 14:00	LUNCH BREAK			
14:00-14:40	HALF PLENARY V & HALF PLENARY VI			
14:40-14:50	SHORT BREAK			



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Hall 2	Theory of Superconductivity-I		Iman Askerzade	
			Pieralberto Marchetti	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Collective Excitations of Charged Superfluids in the BCS-BEC Crossover	330	Serghei Klimin TQC, Universiteit Antwerpen Belgium
15:20-15:40	INV	Stripes in the Extended t-t' Hubbard model: A Variational Monte Carlo analysis	198	Luca Tocchio Politecnico di Torino Italy
15:40-16:00	C	Quantitative Analysis of Quasiparticle Tunneling Spectra of d-wave Superconductors using Pseudo-Voigt Function	441	Orifjon Ganiev Uzbekistan Academy of Science Uzbekistan
16:00 - 16:10	COFFEE BREAK			
Hall 2	Theory of Superconductivity-II		Iman Askerzade	
			Serghei Klimin	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:10-16:40	INV	A FL* Solution to the FL /NFL Dichotomy in hole-doped Cuprates	178	Pieralberto Marchetti Università di Padova Italy
16:40-17:00	INV	Time-reversal-symmetry-breaking in Multiband Superconductors, with and without Inversion	117	Igor Herbut Simon Fraser University Canada
17:00-17:20	C	Misleading Weak Coupling Behaviour of Critical Temperature of Pb/Ag, Pb/Cu and Pb/Al Nanocomposites Explained by Proximity Eliashberg Theory	171	Giovanni Ummarino Politecnico di Torino Italy
17:20-17:40	C	The Archimedes Experiment: Using Superconductivity to Investigate the Coupling between Gravity and Quantum Vacuum	491	Luciano Errico University of Naples Italy
18:15-19:00	PLENARY SESSION VI			
19:00-21:00	DINNER			
21:00-22:45	Special Panel: Advances and Challenges in Magnetism Research and Applications			





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08.05.2023 MONDAY / Hall: Hall 3				
08:30 - 09:15	PLENARY SESSION V			
09:15 - 09:30	COFFEE BREAK			
Hall 3	Novel Functional Magnetic Materials – Basic Approach and Applications I			Arcady Zhukov
				Shixun Cao
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	XtremeD: A New Single Crystal and Powder Diffractometer Designed for Measurements at Extreme Conditions of Pressure and Magnetic Fields	425	Javier Campo Spanish National Research Council (CSIC) Spain
10:00-10:30	INV	Ultra-Rapidly Annealed High-Bs Fe(Co)-Based Soft Magnetic Nanocrystalline Alloys for Applications at Elevated Temperatures	220	Ivan Skorvanek Slovak Academy of Sciences Slovakia
10:30-11:00	INV	Kondo-like Behavior and GMR Effect in Co-Cu Granular Alloys and Multilayers	413	Ricardo Lopez Anton University of Castilla-La Mancha Spain
11:00 - 11:10	COFFEE BREAK			
Hall 3	Novel Functional Magnetic Materials – Basic Approach and Applications II			Ivan Skorvanek
				Ricardo Lopez
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:10-11:40	INV	Advanced Functional Magnetic Microwires for Technological Applications	397	Arcady Zhukov UPV/EHU Spain
11:40-12:00	C	Phonon Thermal Conductivity of Mn <sub>2</sub> V(Al,Si) Heusler Alloys	452	Vasily Buchelnikov Chelyabinsk State University Russia
12:00-12:20	C	Magnetic Properties of Mn <sub>2</sub> ScSn Heusler Alloy: Insights from first Principles	450	Mikhail Zagrebin Chelyabinsk State University Russia
12:20-12:40	C	Field Tuning Spin Switching and Spin Reorientation Transition in (Er,Pr)FeO <sub>3</sub> Single Crystals	405	Shixun Cao Shanghai University China
12:40-13:00	C	Controlling the Relaxation of a Er <sup>3+</sup> Single-Ion Magnets Using Ferromagnetic Microparticles	468	Ekaterina Kunitsyna Federal Research Center of Chemical Physics and Medicinal Chemistry RAS Russia
12:40 - 14:00	LUNCH BREAK			
14:00-14:40	HALF PLENARY V & HALF PLENARY VI			
14:40-14:50	SHORT BREAK			



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Hall 3	Magnetic Shape Memory Aalloys and Magnetocaloric-I		Jacek Cwik	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Cross-coupling Contribution to the Multicaloric Effect in Magnetic Materials	377	Lluís Manosa Atlanta Agencia de viajes SA Spain
15:20-15:40	C	Nature of the Frequency Dependence of the Adiabatic Temperature Change Near Tc in Heusler Alloys	461	Adler Gamzatov Amirkhanov Institute of Physics, Daghestan Federal Research Centre, Russian Academy of Sciences Russia
15:40-16:00	C	Tuning of Magnetic Properties of Heusler-type Glass-coated Microwires	398	Arcady Zhukov UPV/EHU Spain
16:00 - 16:10	COFFEE BREAK			
Hall 3	Magnetic Shape Memory Alloys and Magnetocaloric-II		Lluís Manosa	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:10-16:40	INV	Advances in Additive Manufacturing of Metamagnetic Shape Memory Alloys for Magnetocaloric Applications	571	Daniel Salazar BCMaterials, Basque Center for Materials, Applications and Nanostructures Spain
16:40-17:00	INV	Magnetic and Magnetocaloric Properties in Low Temperature Ordered Laves Phase Compounds	264	Jacek Ćwik Institute of Low Temperature and Structure Research Poland
17:00-17:20	C	The Phase Diagrams of Mn2YSn Heusler Alloys with Y = Sc, Ti, V: Insights from ab initio	453	Vladimir Sokolovskiy Chelyabinsk State University Russia
17:20-17:40	C	Investigation of the Contradictory role of Temperature and Magnetic field in Meta-magnetic Shape Memory Alloy via Fraction Method	530	Suheyla Yuce Emre Ondokuz Mayıs University Türkiye
17:40-18:00	C	Demonstration of the Dilemma of Inverse Magnetocaloric Materials in a Magnetic Shape Memory Alloy (MSMA)	532	Baris Emre Ankara University Türkiye
18:15-19:00	PLENARY SESSION VI			
19:00-21:00	DINNER			
21:00-22:45	Special Panel: Advances and Challenges in Magnetics Research and Applications			



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08.05.2023 MONDAY / Hall: Hall 4				
08:30 - 09:15	PLENARY SESSION V			
09:15 - 09:30	COFFEE BREAK			
Hall 4	High Tc- Cuprates-I			Ivan Bozovic
				Atsushi Fujimori
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	High-Tc Superconductivity in Extremely Overdoped Cuprates	488	Andrea Gauzzi Sorbonne University France
10:00-10:30	INV	Ionic Effects in Cuprates: from Fermi Arcs to Superconductivity	200	Denis Sunko University of Zagreb Croatia
10:30-11:00	INV	New Quantum Criticality for the Strange Metal and Planckian Behavior in High Temperature Superconductors	194	Carlo Di Castro University of Roma Sapienza Italy
11:00 - 11:10	COFFEE BREAK			
Hall 4	High Tc- Cuprates-II			Ivan Bozovic
				Andrea Gauzzi
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:10-11:40	INV	Electron Fractionalization in the Pseudogap State of Cuprates Detected by RIXS	189	Atsushi Fujimori The University of Tokyo Japan
11:40-12:10	INV	Temperature and Doping Dependent short Range Antiferromagnetic order and Pseudogap Formation in Hole-doped Cuprates	159	Sergei Ovchinnikov Kirensky Institute of Physics, Federal Research Center KSC SB RAS Russia
12:10-12:40	INV	The Breakdown of Superconductivity in Quantum Materials	155	Milan Allan Leiden University Netherlands
12:40 - 14:00	LUNCH BREAK			
14:00-14:40	HALF PLENARY V & HALF PLENARY VI			
14:40-14:50	SHORT BREAK			



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Hall 4	High Tc- Cuprates-III		Ivan Bozovic	
			Denis Sunko	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Density Controlled BCS-BEC Crossover and Vortex Dynamics in 2D Superconductors	549	Yoshihiro Iwasa Quantum-Phase Electronics Center, The University of Tokyo Japan
15:20-15:50	INV	Possible Manifestations of Q-ball Mechanism of High Tc Superconductivity in X-ray Diffraction and Diamagnetic Response	75	Sergei Mukhin National University of Science and Technology MISIS Russia
15:50 - 16:20	COFFEE BREAK			
Hall 4	High Tc- Cuprates-IV		Ivan Bozovic	
			Milan Allan	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:20-16:50	INV	Spin e-Excitations Coupled with Charge and Lattice Dynamics in Hole-doped Cuprate	344	Masaki Fujita Institute for Materials Research, Tohoku Univ. Japan
16:50-17:20	INV	Non-adiabatic Lifshitz Transition in High Tc Superconductor Bi2212	564	Siham Benhabib LUMES, Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland
18:15-19:00	PLENARY SESSION VI			
19:00-21:00	DINNER			
21:00-22:45	Special Panel: Advances and Challenges in Magnetism Research and Applications			



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08.05.2023 MONDAY / Hall: Hall 5				
08:30 - 09:15	PLENARY SESSION V			
09:15 - 09:30	COFFEE BREAK			
Hall 5	Large Scale Applications of Superconductors and their fundamental technologies-I			Naoyuki Amemiya
				Jaume Cunill-Subiranas
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Superconducting Undulators – from Unlikely to Unlimited	428	Yury Ivanyushenkov Argonne National Laboratory USA
10:00-10:20	C	A Study of Magnetization Anisotropy of High Temperature Superconducting Tape	521	Igor Rudnev National Research Nuclear University MEPHI Russia
10:20-10:40	C	Loss Evaluation of a Superconducting Cable and Its Terminations for a DC Railway Network	321	Ghazi Hajiri GREEN - Université de Lorraine France
10:40 - 11:00	COFFEE BREAK			
Hall 5	Large Scale Applications of Superconductors and their fundamental technologies-II			Naoyuki Amemiya
				Joao Murta-Pina
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:00-11:30	INV	Development of Spiral Copper-Plated Striated Coated Conductor Cables (SCSC CABLES)	607	Naoyuki Amemiya Kyoto University Japan
11:30-11:50	C	Bulk Superconductors for Toroidal Magnetic Field Confinement: Application to Fusion Magnets	286	Jaume Cunill-Subiranas Universitat Autònoma de Barcelona Spain
11:50-12:10	C	Performance Degradation of Multi-layer Spiral Cable during Manufacturing Procedure	515	Jie Sheng Shanghai Jiao Tong University China
12:10-12:30	C	Losses in Large Scale Non-Inductive High Temperature Superconducting Coils	293	Sara Fawaz GREEN université de Lorraine France
12:30-14:00	LUNCH BREAK			
14:00-14:40	HALF PLENARY V & HALF PLENARY VI			
14:40-14:50	SHORT BREAK			



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Hall 5	Large Scale Applications of Superconductors and their fundamental technologies-III		Naoyuki Amemiya Ghazi Hajiri	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	AC Loss Modelling in HTS Transformers by Artificial Neural Networks	547	Joao Murta-Pina Centre of Technology and Systems - UNINOVA Portugal
15:20-15:40	C	Removing Forces Between Current Wires in Electromagnets Using Bulk Superconductors	287	Natanael Bort-Soldevila Univertitat Autonomia Barcelona Spain
15:40-16:00	C	The Research Status of YBCO and Bi2212 CICC for Future Fusion Reactor	347	Jinggang Qin Chinese Academy of Sciences China
18:15-19:00	PLENARY SESSION VI			
19:00-21:00	DINNER			
21:00-22:45	Special Panel: Advances and Challenges in Magnetics Research and Applications			





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08.05.2023 MONDAY / Hall: Hall 6				
08:30 - 09:15	PLENARY SESSION V			
09:15 - 09:30	COFFEE BREAK			
Hall 6	Various Superconducting Quantum Phases			Ilya Eremin
				Sebastian Schneider
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Non-Hermitian PT-symmetric Ising spin chains: Novel Quantum Phases and Quantum Phase Transitions	282	Mikhail Fistul Theoretische Physik III, Ruhr-University Bochum Germany
10:00-10:30	INV	Manipulation of the Current-Carrying States in Superconductor Rings by Circularly Polarized Radiation.	331	Mihail Croitoru National Research University Higher School of Economics Russia
10:30-10:50	C	Peculiar Aspects of the BCS Theory of Superconductivity. Why Do We Have Multiple Solutions?	485	Dragos-Victor Anghel Horia Hulubei National Institute of Physics Romania
10:50 - 11:00	COFFEE BREAK			
Hall 6	Topological Quantum Magnets			Lia Krusin
				Mihail Croitoru
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:00-11:30	INV	Current Status in the Field of the Intrinsic Magnetic Topological Insulators of the MnBi <sub>2</sub> Te <sub>4</sub> Family	550	Mikhail Otrokov Materials Physics Center (MPC) Spain
11:30-12:00	INV	Kitaev magnets as a Majorana platform	133	Yukitoshi Motome The University of Tokyo Japan
12:00-12:20	C	Investigation of Quantum Magnets in Tetraborides by Scanning Tunneling Microscopy	226	Slavomir Gabani Slovak Academy of Sciences Slovakia
12:20 - 14:00	LUNCH BREAK			
14:00-14:40	HALF PLENARY V & HALF PLENARY VI			
14:40-14:50	SHORT BREAK			



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Hall 6	Magnetization Dynamics and Magnonics-I		Ahmad Awad	
			Akashdeep Kamra	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Dynamics of Magnetization in Chiral Magnetization Textures	584	Mateusz Zelent Adam Mickiewicz University in Poznan Poland
15:20-15:50	INV	THz-field-induced Transient Magnetization in the Quantum Paraelectric Diamagnet KTaO <sub>3</sub>	116	Filip Kadlec Czech Academy of Sciences Czech Republic
15:50-16:20	INV	Dynamics and Reversible Control of the Vortex Bloch Point Domain wall in short Cylindrical Magnetic Nanowires	465	Farkhad Aliev Universidad Autonoma de Madrid Spain
16:20 - 16:30	COFFEE BREAK			
Hall 6	Magnetization Dynamics and Magnonics-II		Farkhad Aliev	
			Ahmad Awad	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:30-17:00	INV	Nonreciprocal Magnon Transport and Hanle Effect in Hematite	518	Akashdeep Kamra Autonomous University of Madrid Spain
17:00-17:20	INV	A Spinwave Time-Multiplexed Ising Machine	581	Artem Litvinenko University of Gothenburg Sweden
17:20-17:40	INV	Direct Observation of Propagating Spin Waves with Large Non-Reciprocity	582	Sebastian Wintz Max-Planck-Institut für Intelligente Systeme Germany
17:40-18:00	C	Mutual Synchronization of Antiferromagnetic Spintronic Oscillators	326	Ansar Safin IRE RAS Russia
18:15-19:00	PLENARY SESSION VI			
19:00-21:00	DINNER			
21:00-22:45	Special Panel: Advances and Challenges in Magnetism Research and Applications			



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09.05.2023 TUESDAY / Hall: Hall 1				
08:30 - 09:15	PLENARY SESSION VII			
09:15 - 09:30	COFFEE BREAK			
Hall 1	Fe-Based Superconductors: Growth and Properties Relevant to Applications-I			Enrico Silva
				Chiheng Dong
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Magnetic Granularity in Iron-Based Superconducting Films on RABiTS Templates	427	Michael Eisterer Atominstut, TU Wien Austria
10:00-10:30	INV	Heavily Electron doping NdFeAsO with High J <sub>c</sub> and Low Anisotropy	260	Kazumasa Iida Nihon University Japan
10:30-11:00	INV	Prominent Performance of FeSe <sub>0.5</sub> Te <sub>0.5</sub> Thin Films Produced by Low-energy Ion Irradiation	181	Toshinori Ozaki Kwansei Gakuin University Japan
11:00 - 11:10	COFFEE BREAK			
Hall 1	Fe-Based Superconductors: Growth and Properties Relevant to Applications-II			Michael Eisterer
				Toshinori Ozaki
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:10-11:40	INV	Vortex Motion in FeSeTe Thin Films at Microwave Frequencies: Anisotropy, Flux-flow, Pinning and Effect of Irradiation	169	Enrico Silva Università Roma Tre, Dept. of Industrial Italy
11:40-12:10	INV	Major Causes Degrading the Grain Boundary Connectivity in K-doped Ba <sub>122</sub> Fe-based Superconductors	161	Fumitake Kametani Florida State University USA
12:10-12:40	INV	Nodal Multigap Superconductivity in the Anisotropic Iron-Based Compound RbCa <sub>2</sub> Fe <sub>4</sub> As <sub>4</sub> F <sub>2</sub>	153	Dario Daghero Politecnico di Torino Italy
12:40-13:00	C	Phase Diagram of Fe <sub>y</sub> Se <sub>x</sub> Te <sub>1-x</sub> Superconducting Films	454	Jiaying Zhang Materials Genome Institute, Shanghai University China
13:00 - 14:00	LUNCH BREAK			
14:00-14:40	HALF PLENARY VII & HALF PLENARY VIII			
14:40-14:50	SHORT BREAK			



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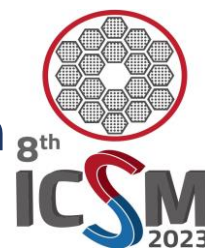


Hall 1	Fe-Based Superconductors: Growth and Properties Relevant to Applications-III		Dario Daghero	
			Tsuyoshi Tamegai	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Highly Hydrogen-Substituted 1111-Type SmFeAsO Epitaxial Films: Fabrication and Superconducting Properties	190	Kota Hanzawa Tokyo Institute of Technology Japan
15:20-15:50	INV	Data Driven Processing and Record Trapped Field Properties of Iron-Based Superconductors	510	Akiyasu Yamamoto Tokyo University of Agriculture and Technology Japan
15:50-16:20	INV	High-Pressure Growth and Physical Properties of Iron-Based Superconductors: 1111 and 1144	567	Shiv Singh Institute of High Pressure Physics Warsaw Poland Poland
16:20 - 16:30	COFFEE BREAK			
Hall 1	Fe-Based Superconductors: Growth and Properties Relevant to Applications-IV		Fumitake Kametani	
			Kazumasa Iida	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:30-17:00	INV	Anomalous Peak Effects in Iron-based Superconductors with Columnar Defects	128	Tsuyoshi Tamegai The University of Tokyo Japan
17:00-17:30	INV	Superconductivity and Thermal Stability of Ba1-xKxFe2As2 Composite Wires and Tapes	432	Chiheng Dong Chinese Academy of Science China
17:30-17:50	C	Synthesis and Characterization of Cs-based Eu/Sr-1144 Superconductors	305	Alena Degtyarenko P.N. Lebedev Physical Institute Russia
18:15-19:00	PLENARY SESSION VIII			
20:00-24:00	GALA DINNER			



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09.05.2023 TUESDAY / Hall: Hall 2				
08:30 - 09:15	PLENARY SESSION VII			
09:15 - 09:30	COFFEE BREAK			
Hall 2	Quantum Functional Materials and Quantum Technology-I			Davron Matrasulov
				Saparboy Rakhmanov
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Machine Learning Assisted Continuous Time Quantum Monte Carlo	613	Taegeun Song Kongju National University South Korea
10:00-10:30	INV	Anyonic Physics in the Fractional Quantum Hall Effect Studied with the Hong-Ou-Mandel dip for Fractional Excitations	498	Jonckheere Thibaut CNRS - Centre de Physique Théorique - Marseille France
10:30-11:00	INV	Tunable Transport of Quasiparticles in Low-dimensional Superconducting Networks Quantum Graphs Based Approach	614	Davron Matrasulov Turin Polytechnic University in Tashkent Uzbekistan
11:00 - 11:10	COFFEE BREAK			
Hall 2	Quantum Functional Materials and Quantum Technology-II			Taegeun Song
				Jonckheere Thibaut
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:10-11:40	INV	Prospects for Quantum Medicine	559	Valerii Vinokur Terra Quantum AG USA
11:40-12:10	INV	Coulomb Impurities in Graphene: Supercritical States of 1D Artificial Relativistic Atom	419	Saparboy Rakhmanov Chirchik State Pedagogical University Uzbekistan
12:10-12:30	C	Weighted Limit Solution of a Nonlinear Differential Equation	407	Roza Uteshova Institute of Mathematics and Mathematical Modeling Kazakhstan
12:30-12:50	C	Nonlocal Problems for Impulsive Hyperbolic Equation with Discrete Memory	399	Anar Assanova Institute of Mathematics and Mathematical Modeling Kazakhstan
12:50 - 14:00	LUNCH BREAK			
14:00-14:40	HALF PLENARY VII & HALF PLENARY VIII			
14:40-14:50	SHORT BREAK			



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Hall 2	Magnetism, Lattice Dynamics and Superconductivity		Stanislaw Dubiel	
			Israel Felner	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Phonon Confinement and Spin-Phonon Interaction in Strained Thin EuO Films	320	Svetoslav Stankov Karlsruhe Institute of Technology (KIT) Germany
15:20-15:50	INV	Magnetism from the point of view of Nuclear Resonant Inelastic X-ray Scattering	258	Michael Hu Argonne National Lab USA
15:50-16:20	INV	Interplay between Superconductivity and Magnetism: A Guide for Searching high T <sub>c</sub> Superconductors	389	Israel Felner Racah Institute of Physics, The Hebrew University Israel
16:20-16:50	C	Effect of Magnetism on Lattice Dynamics	97	Stanislaw Dubiel AGH University of Science & Technology Poland
16:50 - 16:55	COFFEE BREAK			
Hall 2	Superconductivity in Lower Dimensions-I		Andrei Zaikin	
			Andrey Vasenko	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:55-17:25	INV	Controlling Supercurrent by High-Energy Quasiparticles	156	Yuri Pashkin Lancaster University United Kingdom
17:25-17:55	INV	Flux Cotunneling and Coulomb drag for Quantum Phase Slips	196	Andrei Zaikin Karlsruhe Institute of Technology Germany
17:55-18:15	C	Spin-orbit Assisted Superconductivity in Transition Metal Dichalcogenides	462	Maxim Khodas The Hebrew University of Jerusalem Israel
18:15-19:00	PLENARY SESSION VIII			
20:00-24:00	GALA DINNER			





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09.05.2023 TUESDAY / Hall: Hall 3				
08:30 - 09:15	PLENARY SESSION VII			
09:15 - 09:30	COFFEE BREAK			
Hall 3	Device Physics of Josephson Junctions and Their Fundamental Technologies-I			Yılmaz Simsek
				Olca Kızılaslan
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Switchable Vortex-Based Superconducting Diodes	360	Vladimir Krasnov Stockholm University Sweden
10:00-10:30	INV	High Efficiency Josephson Ratchets Based on YBCO Josephson Junctions Fabricated with a Focused He-Ion beam	218	Edward Goldobin University of Tübingen Germany
10:30-11:00	INV	Serial Biasing Technique for RSFQ Circuits Designed for MIT-LL SFQ5ee Fabrication Node	167	Timur Filippov HYPRES, Inc USA
11:00 - 11:10	COFFEE BREAK			
Hall 3	Device Physics of Josephson Junctions and Their Fundamental Technologies-II			Edward Goldobin
				Olca Kızılaslan
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:00-11:30	INV	Mixed-Signal Single-Flux Quantum Superconducting Neuron with Memory Features	276	Hannes Toepfer Ilmenau University of Technology Germany
11:30-12:00	INV	Comprehensive Performance Evaluation and Optimization of Josephson Comparator	175	Jie Ren SIMIT, CAS China
12:00-12:20	C	Strongly Coupled rf SQUID Metamaterials with Novel Collective Properties	255	Steven Anlage University of Maryland USA
12:30 - 14:00	LUNCH BREAK			
14:00-14:40	HALF PLENARY VII & HALF PLENARY VIII			
14:40-14:50	SHORT BREAK			



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Hall 3	Device Physics of Josephson Junctions and Their Fundamental Technologies-III		Vladimir Krasnov	
			Olçay Kızılaslan	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Review of Synopsys Tools Developed under IARPA SuperTools Program from a Circuit Designer's Perspective	526	Mustafa Çelik Hypres, Inc. USA
15:20-15:40	C	Effective Models for Single and Double Quantum Dots Coupled to Superconducting Leads	242	Martin Žonda Charles University Czech Republic
15:40-16:00	C	Influence of Anharmonic and Frustration Effects on Critical Current of dc SQUID	393	Iman Askerzade Ankara University Türkiye
16:00 - 16:20	COFFEE BREAK			
Hall 3	Device Physics of Josephson Junctions and Their Fundamental Technologies-IV		Jianxin Lin	
			Yılmaz Simsek	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:20-16:50	INV	Quantum Interference in High-Temperature Cuprate Superconductor with Novel Weak Links Based on Artificial Bottom-up Engineering	80	Jianxin Lin Harbin Engineering University China
16:50-17:10	C	Electrically Small Superconducting Antennas for Telecommunication Applications	583	Nikolay Kolotinskiy Lomonosov Moscow State University Russia
17:10-17:30	C	Universal Modeling of Electrostatic Semiconductor Quantum Gates of any Topology Interfaced to Josephson Junction Quantum Circuit	341	Krzysztof Pomorski University College Dublin Poland
17:30-17:50	C	Discrete sine-Gordon Equation on Metric Graphs: A Simple Model for Josephson Junction Networks	543	Mashrab Akramov National University of Uzbekistan Uzbekistan
18:15-19:00	PLENARY SESSION VIII			
20:00-24:00	GALA DINNER			



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09.05.2023 TUESDAY / Hall: Hall 4				
08:30 - 09:15	PLENARY SESSION VII			
09:15 - 09:30	COFFEE BREAK			
Hall 4	MgB <sub>2</sub> – Materials and Applications-I			Akiyasu Yamamoto
				Hiroaki Kumakura
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	MgB <sub>2</sub> Bulk Superconductor Processed by Spark Plasma Synthesis and Sintering	332	Jacques Noudem CRISMAT, University of Caen Normandy France
10:00-10:30	INV	Bulk MgB <sub>2</sub> Processed Under Extreme Conditions	265	Badica Petre National Institute of Materials Physics Romania
10:30-11:00	INV	Critical Current Density in MgB <sub>2</sub> Wires with Nano-amorphous Isotopic Boron (11B) made by CTFF Method	237	Daniel Gajda ILT SR PAS Poland
11:00 - 11:10	COFFEE BREAK			
Hall 4	MgB <sub>2</sub> – Materials and Applications-II			Akiyasu Yamamoto
				Hiroaki Kumakura
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:10-11:40	INV	Effect of Ball Milling on Microstructures and Superconducting Properties of Ex-situ MgB <sub>2</sub> Bulk Samples	403	Zilin Gao University of Oxford United Kingdom
11:40-12:10	INV	3D Microstructural Observation in MgB <sub>2</sub> Polycrystalline Materials	463	Yusuke Shimada Tohoku University Japan
12:10-12:40	INV	Disorder Anisotropy of Structures in High-performance MgB <sub>2</sub> Materials	541	Minoru Maeda Kangwon National University South Korea
12:40 - 14:00	LUNCH BREAK			
14:00-14:40	HALF PLENARY VII & HALF PLENARY VIII			
14:40-14:50	SHORT BREAK			



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Hall 4	MgB <sub>2</sub> – Materials and Applications-III		Jacques Noudem	
			Pierre Bernstein	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Our Continuous Efforts to Enhance MgB <sub>2</sub> Superconductor and Its Application	548	Jung Ho Kim University of Wollongong / Institute for Superconducting and Electronic Materials Australia
15:20-15:40	C	SiC Reinforcement on the Densification, Physical Properties of MgB <sub>2</sub> Bulk Superconductors by In-situ Spark Plasma Sintering Technique	152	Hasan Ağıl Hakkari University Türkiye
15:40-16:00	C	Strong Influence of Boron Precursor Powder on the Magnetic Levitation force of Bulk MgB <sub>2</sub>	509	Burcu Savaşkan Karadeniz Technical University Türkiye
16:20 - 16:40	COFFEE BREAK			
Hall 4	MgB <sub>2</sub> – Materials and Applications-IV		Hasan Ağıl	
			Yusuke Shimada	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:40-17:10	INV	The Role of Surface Barriers in the Magnetic Levitation of Superconductors	227	Pierre Bernstein CNRS CRISMAT-ENSICAEN France
17:10-17:30	C	Small Joint Design for Superconducting MgB <sub>2</sub> Wire	386	Doğan Avcı Abant İzzet Baysal University Türkiye
18:15-19:00	PLENARY SESSION VIII			
20:00-24:00	GALA DINNER			



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09.05.2023 TUESDAY / Hall: Hall 5				
08:30 - 09:15	PLENARY SESSION VII			
09:15 - 09:30	COFFEE BREAK			
Hall 5	Strongly Correlated Electrons and Systems-I			Tuson Park
				Eva Pavarini
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Pressure-induced Partial Disorder and Magnetism in Li <sub>2</sub> MnO <sub>3</sub>	101	Tsuyoshi Takami Kyoto University Japan
10:00-10:30	INV	Origin of Residual Ferromagnetic State in FeRh Film below the Transition Temperature	79	Sungkyun Park Pusan National University South Korea
10:30-11:00	INV	Ferromagnetic Cluster-glass Behavior in Kondo Lattice System	174	Eundeok Mun Simon Fraser University Canada
11:00 - 11:10	COFFEE BREAK			
Hall 5	Strongly Correlated Electrons and Systems-II			Tsuyoshi Takami
				Sungkyun Park
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:10-11:40	INV	Mapping of Magnetic Anisotropy for van der Waals Magnets	513	Younjung Jo Kyungpook National University South Korea
11:40-12:10	INV	Metallic Spin Liquid as a Fractionalized Heavy Fermion Liquid on Frustrated Kondo lattice	77	Yi-feng Yang Chinese Academy of Sciences China
12:10-12:40	INV	Charge Delocalization in the Quantum Critical Superconductor CeRhIn <sub>5</sub>	164	Tuson Park Sungkyunkwna University South Korea
12:40 - 14:00	LUNCH BREAK			
14:00-14:40	HALF PLENARY VII & HALF PLENARY VIII			
14:40-14:50	SHORT BREAK			



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Hall 5	Strongly Correlated Electrons and Systems-III		Eundeok Mun	
			Steven Anlage	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Structures and Transport Properties of High-Z metals under High Pressure of Hydrogen	202	Jaeyong Kim Hanyang University South Korea
15:20-15:40	C	Spin Orbit Coupling driven Novel Quantum Magnetism in Iridate Double Perovskites	372	Sudipta Kanungo Indian Institute of Technology Goa India
15:40-16:00	C	Effect of External Pressure on the Metal-Insulator Transition of the Organic Quasi-two-dimensional Metals $k-(\text{ET})_2\text{Hg}(\text{SCN})_2\text{X}$ ( $\text{X}=\text{Cl}, \text{Br}$ ).	111	Vladimir Zverev Institute of Solid State Physics, RAS Russia
16:00 - 16:10	COFFEE BREAK			
Hall 5	Strongly Correlated Electrons and Systems-IV		Tuson Park	
			Jaeyong Kim	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:10-16:40	INV	The Microwave Electrodynamics of $\text{UTe}_2$	254	Steven Anlage University of Maryland USA
16:40-17:00	INV	The Intrinsic Three-band Nature of Strongly-Correlated Iridates	578	Eva Pavarini FZJ Germany
17:00-17:20	C	Phase Separation in Double Perovskite Oxides	132	Rushana Eremina FRC Kazan Scientific Center, Russian Academy of Sciences Russia
17:20-17:40	C	Evolution of Charge Carriers near the Mott Transition: Theory vs. Experiment in $k-(\text{BEDT-TTF})_2\text{X}$	138	Mark Kartsovnik Walther-Meissner-Institute Germany
17:40-18:00	C	Real-space Observation of the Domain Wall Structure of Spin-density-wave state	531	Yining Hu Fudan University China
18:15-19:00	PLENARY SESSION VIII			
20:00-24:00	GALA DINNER			





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09.05.2023 TUESDAY / Hall: Hall 6				
08:30 - 09:15	PLENARY SESSION VII			
09:15 - 09:30	COFFEE BREAK			
Hall 6	Kitaev Model and Materials			Sergey Streltsov
				Alexander Chernyshev
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Janh-Teller Polaron in a Spin-orbit Multipolar Magnetic Oxide	557	Cesare Franchini University of Vienna & University of Bologna Austria
10:00-10:30	INV	Kitaev Model in the easy-plane limit: Quantum Effects and Exotic States	134	Pavel Maksimov Joint Institute for Nuclear Research Russia
10:30 - 10:40	COFFEE BREAK			
Hall 6	Low Dimensional Frustrated Magnetism and Spin-Orbital Materials			Cesare Franchini
				Pavel Maksimov
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
10:40-11:10	INV	Are cobaltites Kitaev materials?	563	Sergey Streltsov Insitute of Metal Physics Russia
11:10-11:40	INV	Roller-Coaster in a Flatland: Magnetoresistivity in Eu-intercalated Graphite	342	Alexander Chernyshev University of California, Irvine USA
11:40-12:10	INV	Frustrated Magnetism and Deconfinement in Doped and Undoped Mott Insulators	235	Valentin Irkhin Mikheev Institute of Metal Physics Russia
12:30 - 14:00	LUNCH BREAK			
14:00-14:40	HALF PLENARY VII & HALF PLENARY VIII			
14:40-14:50	SHORT BREAK			



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Hall 6	Low Dimensional Magnetism of Dichalcogenides		Sergey Streltsov	
			Alexander Vasiliev	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14:50-15:20	INV	Noncentrosymmetric Magnetic Structures based on Group IV Transition Metal Dichalcogenide Intercalates	230	Alexander Titov M.N. Miheev Institute of Metal Physics of Ural Branch of Russian Academy of Sciences Russia
15:20-15:40	C	Electronic Transport in 2H-NbS <sub>2</sub> Regulated by Intercalated Magnetic 3d Orbitals	457	Petar Popčević Institute of Physics Croatia
15:40-16:00	C	Transition Metal-Based Layered Van der Waals Chalcogenides: Exploring Magnetism in Two Dimensions	233	Valeriy Verchenko Lomonosov Moscow State University Russia
16:00 - 16:10	COFFEE BREAK			
Hall 6	Low Dimensional Frustrated Magnetism		Alexander Chernyshev	
			Sergey Streltsov	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16:10-16:40	INV	Square Kagome Systems	123	Alexander Vasiliev National University of Science and Technology MISiS Russia
16:40-17:10	C	Low Dimensional Transition Metal Nitrates	259	Olga Volkova National University of Science and Technology MISiS Russia
17:10-17:30	C	Classical and Quantum Dynamics of Relativistic Two Dimensional Atom in Graphene Interacting With Constant Uniform Magnetic Field	638	Jasur Matrasulov National University of Uzbekistan Uzbekistan
18:15-19:00	PLENARY SESSION VIII			
20:00-24:00	GALA DINNER			



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08:30 - 09:15	PLENARY SESSION IX			
09:15 - 09:30	COFFEE BREAK			
Hall 1	Bulk Superconductors-I			Andres Sotelo
				Barış Güner
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Evaluation of Critical Current Density Inhomogeneities in a Large Commercial REBaCuO bulk	308	Kevin Berger GREEN - University of Lorraine France
10:00-10:30	INV	Magnetic Shields of Various Shapes Combining Bulk Superconductors and Tapes	376	Philippe Vanderbemden University of Liege Belgium
10:30-10:50	C	Dynamic Charge Stripes and Electron Density Modulation in the Anisotropic Two-gap Superconductor ZrB12	213	Nikolay Sluchanko Prokhorov General Physics Institute of Russian Academy of Sciences Russia
10:50-11:10	COFFEE BREAK			
Hall 1	Bulk Superconductors-II			Kevin Berger
				Mustafa Akdoğan
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:10-11:30	C	Hot-Pressed MgB2 and MT-YBCO for Applications in Liquid Hydrogen	487	Tetiana Prikhna National Academy of Sciences of Ukraine Ukraine
11:30-11:50	C	Improvement of Magnetic Levitation and Guiding Force Density of HTS Maglev Systems Using Thinly Sliced Bulk YBCO and Different YBCO-PMG Surface Interactions	429	Ufuk Kemal Ozturk Karadeniz Technical University Türkiye
11:50-12:10	C	High Tc of Tl2Ba2CaCu2O8 Superconductor at Low Pressure	384	Efil Yusrianto UIN IB Padang Indonesia
12:30-14:00	LUNCH BREAK			
14:00-15:30	PLENARY SESSION X			
15:30-17:00	CLOSURE			
17:00-18:00	FAREWELL RECEPTION			



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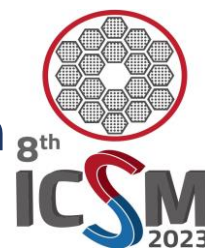


10.05.2023 WEDNESDAY / Hall: Hall 2				
08:30 - 09:15	PLENARY SESSION IX			
09:15 - 09:30	COFFEE BREAK			
Hall 2	Superconductivity in Lower Dimensions-II			Andrei Zaikin
				Oleg Astafiev
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Superconducting Diode Phase in Diffusive Topological Hybrid Structures	186	Andrey Vasenko HSE University Russia
10:00-10:30	INV	Effect of Electromagnetic Coupling on Critical and Transport Properties in a System of Capacitively Coupled Superconducting Nanowires	224	Aleksandr Latyshev Universite de Geneve Switzerland
10:30-11:00	INV	Coherent Quantum Phase-Slip Effect in Superconducting Nano-wires	375	Oleg Astafiev Skolkovo Institute of Science and Technology Russia
11:00-11:10	COFFEE BREAK			
Hall 2	Superconductivity in Lower Dimensions-III			Andrei Zaikin
				Yuri Pashkin
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:10-11:40	INV	Robust Superconductivity in Quasi-One-Dimensional Multiband Materials	380	Arkady Shanenko HSE University Russia
11:40-12:10	INV	Debye Mechanism of Giant Dissipation in Superconductors	83	Boris Spivak University of Washington USA
12:10-12:30	C	The Conductivity of Carbon Nanotube Fibers and Dependence on Densification	103	Hassan Butt Skolkovo Institute of Science and Technology Russia
12:30-14:00	LUNCH BREAK			
14:00-15:30	PLENARY SESSION X			
15:30-17:00	CLOSURE			
17:00-18:00	FAREWELL RECEPTION			



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10.05.2023 WEDNESDAY / Hall: Hall 3				
08:30 - 09:15	PLENARY SESSION IX			
09:15 - 09:30	COFFEE BREAK			
Hall 3	New Superconductors-I			Alexander Shegelaya
				Yong Hu
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Time-reversal Symmetry-breaking Charge order in a Kagome Superconductor	177	Zurab Guguchia Paul Scherrer Institute Switzerland
10:00-10:30	INV	Shiba States in the Systems with Density of States Singularities	325	Andrzej Ptak Polish Academy of Sciences Poland
10:30-10:50	C	High-Pressure Phase Diagram of LnHO (Ln = lanthanides)	573	Ryo Terada Kyoto university Japan
10:50-11:00	COFFEE BREAK			
Hall 3	New Superconductors-II			Andrzej Ptak
				Zurab Guguchia
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:00-11:30	INV	Polaronic Charge Carriers and Superconductivity in Oxygen-deficient Tungsten Oxides	185	Alexander Shengelaya Ivane Javakhishvili Tbilisi State University Georgia
11:30-12:00	INV	Superconductivity Beyond the Pauli Limit in High-pressure CeSb <sub>2</sub>	624	Malte Grosche University of Cambridge United Kingdom
12:00-12:20	C	Rich Nature of Van Hove Singularities in Kagome Superconductor CsV <sub>3</sub> Sb <sub>5</sub>	576	Yong Hu Photon Science Division, Paul Scherrer Institut Switzerland
12:30-14:00	LUNCH BREAK			
14:00-15:30	PLENARY SESSION X			
15:30-17:00	CLOSURE			
17:00-18:00	FAREWELL RECEPTION			



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10.05.2023 WEDNESDAY / Hall: Hall 4				
08:30 - 09:15	PLENARY SESSION IX			
09:15 - 09:30	COFFEE BREAK			
Hall 4	Micromechanics and Its Application to Energy Storage and Harvesting Application			Nadeem Qaiser
				Muhammad Anis-ur-Rehman
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	High Pressure Dynamics: Shock Waves Effect on Material Properties at Nanoscale	219	Hassnain Abbas Khan Clean Combustion Research Centre Saudi Arabia
10:00-10:30	INV	Printed Energy Harvesters and Storage Devices for Sensors and Wearables	105	Sherjeel Khan Silicon Austria Labs GmbH Austria
10:30-11:00	INV	Micromechanics of Advanced Electronics Applications: Numerical and Experimental Perspective	107	Nadeem Qaiser KAUST Saudi Arabia
11:00-11:10	COFFEE BREAK			





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Hall 4	Ferrites and Rare Earth Magnetic Materials		Muhammad Anis-ur-Rehman	
			Nadeem Qaiser	
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:10-11:40	INV	Effect of La <sup>3+</sup> on the Structural and Transportation Characteristics of Manganese Zinc Ferrite for R-RAM Applications	345	Muhammad Anis-ur-Rehman COMSATS University Islamabad Pakistan
11:40-12:10	INV	Crystal Structure and Magnetic Properties of A-site Substituted Nd <sub>1-x</sub> R <sub>x</sub> BaMn <sub>2</sub> O <sub>6</sub> Double Manganites, R= Sm, Pr	119	Svetlana Titova Institute of Metallurgy UrD RAS Russia
12:10-12:30	C	Calcination Temperature Dependence of Tri-Magnetic Nano-ferrite ( [Ni] <sub>1/3</sub> [Cu] <sub>1/3</sub> [Zn] <sub>1/3</sub> [Fe] <sub>2</sub> O <sub>4</sub> ): Structural, Optical, and Magnetic Properties	445	Roaa Yassine Beirut Arab University Lebanon
12:30-12:50	C	An Electron Spin Resonance Study of Multiferroic Perovskite BiFe <sub>0.5</sub> Mn <sub>0.5</sub> O <sub>3</sub> Displaying Spontaneous Magnetization Reversal	371	Tebogo Mahule University of South Africa South Africa
12:50-14:00	LUNCH BREAK			
14:00-15:30	PLENARY SESSION X			
15:30-17:00	CLOSURE			
17:00-18:00	FAREWELL RECEPTION			



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10.05.2023 WEDNESDAY / Hall: Hall 5				
08:30 - 09:15	PLENARY SESSION IX			
09:15 - 09:30	COFFEE BREAK			
Hall 5	Novel Functional Magnetic Materials – Basic Approach and Applications III			Arcady Zhukov
				Vasily Milyutin
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
09:30-10:00	INV	Murunskite: A Bridge Between Cuprates and Pnictides	627	Trpimir Ivsic TU Wien Austria
10:00-10:20	C	Study of the Curie Temperature in the D03 Structure Fe <sub>75</sub> Al <sub>25</sub> as a Function of the Exchange Constants Obtained Within the Framework of the DLM Formalism	458	Mariya Matyunina Chelybinsk State University Russia
10:20-10:40	C	Dielectric Permittivity in HoxMn <sub>1-x</sub> S Solid Solutions	1	Anton Kharkov Siberian State Aerospace University Russia
10:40-11:00	COFFEE BREAK			
Hall 5	Novel Functional Magnetic Materials – Basic Approach and Applications IV			Arcady Zhukov
				Trpimir Ivsic
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11:00-11:20	C	Magnetostrictive Alloys Fe-Ga: Structure, Properties and Recent Advantages in Manufacturing for High-frequency Applications.	443	Vasily Milyutin Slovak Academy of Sciences Slovakia
11:20-11:40	C	Selective Laser Sintering of Permanent Magnets Based on Sm-Fe-Ti and Nd-Fe-B Alloys	290	Aleksey Volegov Ural Federal University Russia
11:40-12:00	C	A Modified Kondorsky Model for Describing the Magnetization Reversal Processes in Nd-Fe-B Permanent Magnets	303	Andrey Urzhumtsev Ural Federal University Russia
12:40-14:00	LUNCH BREAK			
14:00-15:30	PLENARY SESSION X			
15:30-17:00	CLOSURE			
17:00-18:00	FAREWELL RECEPTION			



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## POSTER PRESENTATIONS



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05.05.2023-06.05.2023

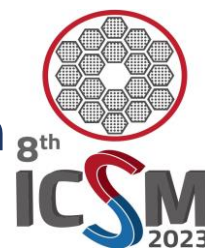
05.05.2023 FRIDAY / POSTER HALL TIME: 18:15-19:30

Board ID	High T <sub>c</sub> - Cuprates			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
1	C	Investigating Hydrodynamic Electron Flow in Nanostructured Strange Metals	322	Tycho Blom Leiden Institute of Physics, Leiden University Netherlands
2	C	The Role of (Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> ) Garnet on the Dielectric Response of (Bi,Pb)-2223 Superconductors	333	Marwa El Makdah Beirut Arab University Lebanon
3	C	Structural, Electrical and Mechanical Properties of the (Tl,Hg)-1223 Superconductor Phase Substituted by Lanthanum and Samarium Fluorides	335	Rola Khattar Beirut Arab University Lebanon
4	C	The Effects of Different Heat Treatment on Axial Tensile Properties of Bi-2212 Round Wires	385	Zhou Mengliang Chinese Academy of Sciences China
5	C	Search for a Novel Phase in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> Family	574	Danijel Djurek Alessandro Volta Applied Ceramics (AVAC) Croatia



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Board ID	HTS Superconducting Thin Films and Interface Superconductivity			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
6	C	Terahertz Conductivity of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> - Thin Films of Various Doping	252	Michal Šindler Academy of Sciences of the Czech Republic, Czech Republic
7	C	On the Effect of Film's Thickness on T <sub>c</sub> of La <sub>2</sub> -xSrxCuO <sub>4</sub> Films	503	Dusmukhammad Khajibaev Nukus State Pedagogical institute Uzbekistan
8	C	Multi-wall Carbon Nanotubes (MWCNTs) Difusing Effect on the Superconducting Lead free Solder System	602	Canan Aksoy KTU Türkiye
Board ID	Large Scale Applications of Superconductors and their fundamental technologies			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
9	C	Characteristics of The DC Circuit Breaker According to Superconducting Resistance and Critical Current	277	Jisol Jeong Chosun University South Korea
10	C	Comparison of Characteristics According to Different Substrate Layers in Multi-filar Meander Type R-SFCL	278	Geonwoong Kim Chosun University South Korea
11	C	Resonance Current Analysis of Superconducting LC Divergent Oscillatory DC Circuit Breaker	301	Ji-hye Kim Chosun University South Korea
12	C	33 kVA Single- Phase Transformer with a Novel Subcooled Nitrogen Cryogenic System	618	Elvan Coskun Ankara University Türkiye



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Board ID	Numerical Modelling of Superconducting Materials and Applications			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
13	C	Local and Global Superconductivity in Disordered Materials	249	Viacheslav Neverov HSE University Russia
Board ID	Superconducting Motors			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
14	C	HTSC Helical Armature Windings for Cryogenic Alternators	273	Sergey Timofeyev Institute of Electrophysics and Electric Power Engineering of Russian Academy of Sciences Russia
15	C	Superconducting Electric Machines for Transport Systems	351	Vladimir Kaderov Moscow Aviation Institute Russia
16	C	Superconducting Electric Machines for Transport Systems	359	Nikita Malevich Moscow Aviation Institute Russia
17	C	A New Superconducting Inductor Topology for a Synchronous Machine	216	Kelouaz Moussa USTHB University of Science and Technology of Houari Boumedien Algeria





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Board ID	Fe-Based Superconductors: Growth and Properties Relevant to Applications			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
18	C	Evolution of the Superconducting Order Parameter in Ba(Fe,Ni) <sub>2</sub> As <sub>2</sub> and (K,Na)Fe <sub>2</sub> Se <sub>2</sub> under Electron Doping	619	Tatiana Kuzmicheva Lebedev Physical Institute, Russian Academy of Sciences Russia
19	C	Novel Iron-Based Superconductor Ca <sub>0.5</sub> Sm <sub>0.5</sub> FeAsF	292	Kirill Pervakov Lebedev Physical Institute, RAS Russia
20	C	Superconducting Phase Diagram in 1144 System with Magnetic Atoms	298	Vladimir Vlasenko Ginzburg Center for High-Temperature Superconductivity and Quantum Materials, P.N. Lebedev Physical Russia
21	C	Direct Tunneling Probe of the Superconducting Order Parameter in EuCsFe <sub>4</sub> As <sub>4</sub>	313	Alena Degtyarenko P.N. Lebedev Physical Institute Russia
22	C	Prerequisites of Pair Density wave in a doped FeSe Monolayer	271	Alexandr Lukyanov Higher School of Economics Russia
23	C	Optimization of Superconducting Properties of F-doped GdFeAsO by High-Pressure Technique	593	Mohammad Azam Polish Academy of Sciences Poland
24	C	High-pressure Synthesis Effects on the Superconducting Property of FeSe <sub>0.5</sub> Te <sub>0.5</sub>	606	Manasa Manasa Polish Academy of Sciences Poland



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Board ID	New Superconductors			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
25	C	Charge Density order and Time-reversal Symmetry Breaking in CsV <sub>3</sub> Sb <sub>5</sub>	168	Rustem Khasanov Laboratory for Muon Spin Spectroscopy, Paul Scherrer Institute, Switzerland
Board ID	Superconducting Spintronics			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
26	C	Proximity Effect in S/AF Bilayers and AF/S/AF Spin Valves	261	Valeria Gordeeva Moscow Institute of Physics and Technology Russia
27	C	Proximity Effect in Superconductor/Antiferromagnet Hybrids: Neel Triplets and Impurity Suppression of Superconductivity	263	Grigori Bobkov Moscow Institute of Physics and Technology Russia
28	C	Density of States in the Presence of Spin-dependent Scattering in SF Bilayers.	446	Anastasia Guravova National Research University Higher School of Economics Russia
29	C	Superspintronics for Next-Generation Information and Quantum Technologies	106	Niladri Banerjee Imperial College London United Kingdom
Board ID	Superconductivity and Magnetism in 3D Nanoarchitectures-2-Superconductivity			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
30	C	Time-Dependent Ginzburg-Landau Simulations on Curved 3D Structures	323	Axel Deenen EPFL, Laboratory of Nanoscale Magnetic Materials and Magnonics Switzerland



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Board ID	Theory of Superconductivity			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
31	C	Effect of Boundaries on the Surface Superconducting Critical Temperature	329	Mihail Croitoru National Research University Higher School of Economics, Moscow 101000, Russia Russia
32	C	A Unified Description of Superconductivity: Electron Density Dynamic's Response to Phonons at the Brillouin Zone Boundary Driven a Real Space Electron-Hole Pairing Characterized by CPT Symmetry	172	Tarek Guerfi Faculty of Sciences M'hamed Bougara University Algeria
Board ID	The Interplay of Superconductivity and Magnetism			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
33	C	Interplay of Hopping Conductivity and Superconductivity in RuSr <sub>2</sub> (Eu <sub>1.5</sub> Ce <sub>0.5</sub> )Cu <sub>2</sub> O <sub>10-δ</sub>	537	Eugeniy Beliaev Institute for Low Temperature Physics and Engineering NAS of Ukraine Ukraine
Board ID	Vortex Matter, Dynamics and Pinning			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
34	C	Study of Critical Current Density in Superconducting Tapes with Conformal pinning Arrays	84	Mehdi Hosseini Sharif University of Technology Iran
35	C	Dissipation Effects in Superconducting Thin Films at the Vicinity of the Bogomolny Point	338	Valeriia Pashkovskaia HSE University Russia
36	C	Forces on Quantum Vortex in Type II Superconductors	147	Yusuke Kato The University of Tokyo Japan



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Board ID	Topological Quantum Magnets			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
37	C	Magneto-Transport Properties of the Family of New Magnetic Topological Insulators (MnBi <sub>2</sub> Te <sub>4</sub> )(Bi <sub>2</sub> Te <sub>3</sub> ) <sub>m</sub> (m = 0, ... 3)	608	Vladimir Zverev Russian Academy of Sciences Russia
38	C	Effect of local Coulomb interaction on Majorana Corner Modes	315	Anton Zlotnikov Kirensky Institute of Physics Russia
39	C	Electrical Study of PVDF/SiO <sub>2</sub> Composite for Flexible Electronics Application	245	Sehrish Rana COMSATS Universty Islamabad Pakistan
40	C	Nonvolatile Switching of Berry Curvature Dipole in a Topological Crystalline Insulator at Room Temperature	422	Taiki Nishijima Kyoto University Japan



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Board ID	Advances In Current-Induced Magnetization Control			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
41	C	Spin-Torque Ferromagnetic Resonance as a Way to Probe the Effects of Local Electromigration on Permalloy-Tantalum Bilayers	289	Nicolas Lejeune EPNM University of Liège Belgium
42	C	The Influence of a Spin-polarized Current on Magnetoresistance Coercivity Fields	536	Eugeniy Beliaev Institute for Low Temperature Physics and Engineering NAS of Ukraine Ukraine
43	C	THz Emission Spectroscopy of Exchange-Biased Spintronic Heterostructures	561	Evgeny Karashtin Institute for Physics of Microstructures RAS Russia
Board ID	Device Physics of Josephson Junctions and Their Fundamental Technologies			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
44	C	Probing Quantum Materials by Combining SQUID-on-tip Imaging with Scanning Tunneling Spectroscopy	288	Matthijs Rog Leiden University Netherlands



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Board ID	Advances In Thin Films, Multi-Layers and Patterned Nanostructures			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
1	C	Experimental Signature of Electron-Phonon Decoupling in Ion Damaged InSb Thin Films	382	Jonathan Gough University College London United Kingdom
2	C	Suppression of Magnetization Damping in Ultrathin Co Films by Controlling Surface Magnetic Anisotropy Field via Insertion of Nonmagnetic Buffer Layers	392	Shugo Yoshii Kyoto University Japan
3	C	New Chalcogenide Photovoltaic Devices for Architectural Integration	511	Samuel Porcar García Universitat Jaume I Spain





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Board ID	Bulk Superconductors			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
4	C	Simulation of a Compact Trapped Field Magnet Using a (RE)BCO Bulk and an HTS Coil during a PFM Process	373	Kevin Berger GREEN - University of Lorraine France
5	C	Microstructure and Structural Properties of Superconducting Ceramics Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> FexO <sub>8-δ</sub>	482	Harma Fatima Ksdi Marbah University Algeria
6	C	Effect of Te Substitution on (Ti <sub>0.8</sub> Cr <sub>0.2</sub> )(Sr <sub>2-x</sub> Tex)CaCu <sub>2</sub> O <sub>7</sub> - (x = 0.0 to 0.5) Superconductor	383	Efil Yusrianto UIN IB Padang Indonesia
7	C	The Structural Phase Simulation of High-Tc Superconductor Compound YBa <sub>2</sub> Cu <sub>3-y</sub> PbyO <sub>6.5+δ</sub>	145	Emad Al-Shakarchi Al-Nahrain University Iraq
8	C	Modeling of Granular Superconductor Using Long Josephson Junction Approach	594	Rehile Askerbeyli Karabuk University Türkiye
9	C	Natural Strategies for Creating Non-equilibrium Morphology with Self-repairing Capability Towards Rapid Growth of YBCO Bulks	615	Xin Yao Shanghai Jiao Tong University China
10	C	Effect of Zn/Cu Substitution on the Microstructural, Superconducting and Magnetic Properties of YBCO Superconductors	625	Serap Safran Ankara University Turkey



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Board ID	MgB <sub>2</sub> – Materials and Applications			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
11	C	On the Occasion of 20th Anniversary of the first Experimental Observation of the Leggett Collective Plasma Oscillation in MgB <sub>2</sub>	414	Tatiana Kuzmicheva Lebedev Physical Institute, Russian Academy of Sciences Russia
12	C	A New Approach for Production of IMD MgB <sub>2</sub> Wire	387	Doğan Avcı Abant İzzet Baysal University Türkiye
13	C	Magnetization and Hysteresis Losses of MgB <sub>2</sub> Round Composites at Different Orientation of Applied Magnetic Field	523	Igor Rudnev National Research Nuclear University MEPhI Russia
14	C	Enhancement of Critical Current for MgB <sub>2</sub> Superconducting Wire by An Advanced IMD Process	538	Dong Gun Lee Sam Dong Co., Ltd. South Korea
15	C	MgB <sub>2</sub> Joint Design with Reacted Wires	195	Muslum Guven University of Oxford United Kingdom
Board ID	Low Dimensional Frustrated Magnetism and Spin-Orbital Materials			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
16	C	Absence of Any Ferromagnetic Long-range Order in Holmium at 8 GPa: a Neutron Diffraction Study	439	Miguel Pardo-Sainz CSIC-Universidad de Zaragoza Spain
17	C	Magnetic Properties of Ludwigites Mn <sub>1.17</sub> Co <sub>1.83</sub> BO <sub>5</sub> and Mn <sub>1.39</sub> Co <sub>1.61</sub> BO <sub>5</sub>	579	Rushana Eremina Russian Academy of Sciences Russia
18	C	Magnetic properties of ludwigites Mn <sub>1.17</sub> Co <sub>1.83</sub> BO <sub>5</sub> and Mn <sub>1.39</sub> Co <sub>1.61</sub> BO <sub>5</sub>	603	Ilshat Fazlizhanov Russian Academy of Sciences Russia



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Board ID	Molecular Spintronics Towards Spin Qubits for Quantum Computer and High Density Memory Devices			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
19	C	Generation of Second-harmonic light using polycyanidocuprate(I)-based magneto-luminescent networks	352	Jakub Zakrzewski Jagiellonian University Poland
Board ID	Spintronics Materials-Devices and Applications			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
20	C	Magnetic Oxide Ceramics for Spintronic Applications	585	Cristina Bartha National Institute of Materials Physics Romania
Board ID	Ferrites and Rare Earth Magnetic Materials			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
21	C	Study of Temperature and Frequency Dependent Electrical Properties of Magnesium Doped Cadmium Ferrite for Memory Applications	455	Muhammad Anis-ur-Rehman COMSATS University Islamabad Pakistan
22	C	Structural and Absorption Study of CNTs Dispersed Chromium Zinc Doped Strontium Hexaferrites	456	Muhammad Anis-ur-Rehman COMSATS University Islamabad Pakistan
23	C	Study of transport properties of Pure and Gd-doped Magnesium Ferrite at fixed frequencies.	267	Haroon Mazhar COMSATS University Islamabad Pakistan
24	C	Temperature Dependent Electrical properties of MgFe <sub>2</sub> O <sub>4</sub> and MgFe <sub>1.8</sub> La <sub>0.2</sub> O <sub>4</sub> Spinel Ferrites.	268	Haroon Mazhar COMSATS University Islamabad Pakistan
25	C	Magnetic Properties of Rare Earth Iron Garnets Prepared by Two Synthesis Routes	595	Alexandru-Dinu Andrei National Institute of Materials Physics Romania



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Board ID	Novel Functional Magnetic Materials – Basic Approach and Applications			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
26	C	Hall Effect Anisotropy in the Paramagnetic Phase of Ho <sub>0.8</sub> Lu <sub>0.2</sub> B <sub>12</sub> Induced by Dynamic Charge Stripes	214	Nikolay Sluchanko Prokhorov General Physics Institute of Russian Academy of Sciences Russia
27	C	Resonance Phenomena and Kapitza Pendulum Effects in a Nanomagnet Coupled to a Josephson Junction and Under External Radiation	472	Dragos-Victor Anghel Horia Hulubei National Institute of Physics Romania
28	C	Additive Manufacturing of NdFeB Permanent Magnets	294	Viktoria Maltseva Ural Federal University Russia
29	C	The Effect Of Ti On Ni <sub>55</sub> Fe <sub>18</sub> Ga <sub>27</sub> Alloys	545	Hakan Gungunes Hitit University Türkiye
Board ID	Magnetic and Superconducting Materials Processing and Physical Properties			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
30	C	Influence of Nd-substitution on the Structural & Dielectric Properties of (Ca-Bi) Cobaltites synthesized by Sol-gel Method.	519	Haris Kiani COMSATS University Islamabad Pakistan



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Board ID	Magnetic shape memory alloys and magnetocaloric materials			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
31	C	Magnetic and Thermodynamic Properties in the Doped Ho <sub>1-x</sub> Er <sub>x</sub> Ni <sub>2</sub> Solid Solutions	236	Daniel Gajda ILT SR PAS Poland
32	C	Magnetic and Magnetocaloric Properties of the LaFe <sub>11.1-x</sub> Mn <sub>x</sub> Co <sub>0.7</sub> Si <sub>1.1</sub> (x=0.1, 0.2, 0.3) Alloys	551	Nurizhat Abdulkadirova Amirkhanov Institute of Physics of DFRC of RAS Russia
33	C	The role of Microstructure in the Strong Frequency Dependence of the Magnetocaloric Effect in the Pr <sub>0.7</sub> Sr <sub>0.2</sub> Ca <sub>0.1</sub> MnO <sub>3</sub> Manganite: Direct Measurement	552	Nurizhat Abdulkadirova Amirkhanov Institute of Physics of DFRC of RAS Russia
34	C	Effect of Transition Metal Substitution to Ni-Mn-Sb Heusler Alloy on Magnetic Properties	570	Murat Ayyıldız Inonu University Türkiye
35	C	Magnetic Field Induced Shape Memory Properties in Ni <sub>50-y</sub> CryMn <sub>37</sub> Sb <sub>13</sub> +B <sub>2</sub> Heusler Alloy	572	Murat Ayyıldız Inonu University Türkiye



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Board ID	Magnetism of Nanoparticles, Nano-wires and Nanostructures			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
36	C	Noninvasion Control Magnetic Nanoparticles in the Biological Medium	396	Levan Ichkitidze National Research University of Electronic Technology Russia
37	C	Dielectric and Conductive Properties of Ni <sub>1-x</sub> M <sub>x</sub> O Nanoparticles, where M = Gd, Ru: A Comparative Study	328	Alaa Abdallah Beirut Arab University Lebanon
38	C	The Effect of Heat Treatment on the Structural and Optical Properties of Ru-doped ZnO nanoparticles	340	Dema Dasuki Beirut Arab University Lebanon
39	C	Tuning Magnetic Relaxation Processes via Nanoparticle Organization	357	Kuncser Andrei National Institute of Materials Physics Romania
Board ID	Magnetization Dynamics and Magnonics			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
40	C	Nonlinear Effects in a PT-symmetric System of Planar Coupled Magnonic Waveguides	473	Olga Temnaya IRE RAS Russia
Board ID	Nanocomposites: Properties and Applications			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
41	C	Electrical Properties of RE-doped Cobalt Ferrite Embedded Composite Fibers	246	Sehrish Rana COMSATS Universty Islamabad Pakistan





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Board ID	New Phenomena and Applications in Molecular Magnets			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
42	C	Control of Dysprosium Magnetic Anisotropy in Luminescent Lanthanide(III)–Platinum(II) Molecular Chains	306	Pawel Bonarek Jagiellonian University Poland
43	C	Neutron Diffraction Studies of the Cu(Cr <sub>2</sub> -xSn <sub>x</sub> )S <sub>2</sub> Se <sub>2</sub> Spinel-type Phases	438	Miguel Pardo-Sainz CSIC-Universidad de Zaragoza Spain
Board ID	2D Atomically Thin Topological Materials			
	INV/C	Presentation Title	Abs. ID	Presenter & Affiliation
44	C	Characterization of the Terahertz resonances in Graphene Transistors	121	Fatima Zohra Mahi University of Bechar Algeria
45	C	Nonlinear Microwave Microscopy of SRF Accelerator Materials	256	Steven Anlage University of Maryland USA
46	C	Spin Injection into Graphene through hBN Tunnel Barriers	535	Elisa Shuoying Yang Catalan Institute of Nanoscience and Nanotechnology (ICN2) Spain



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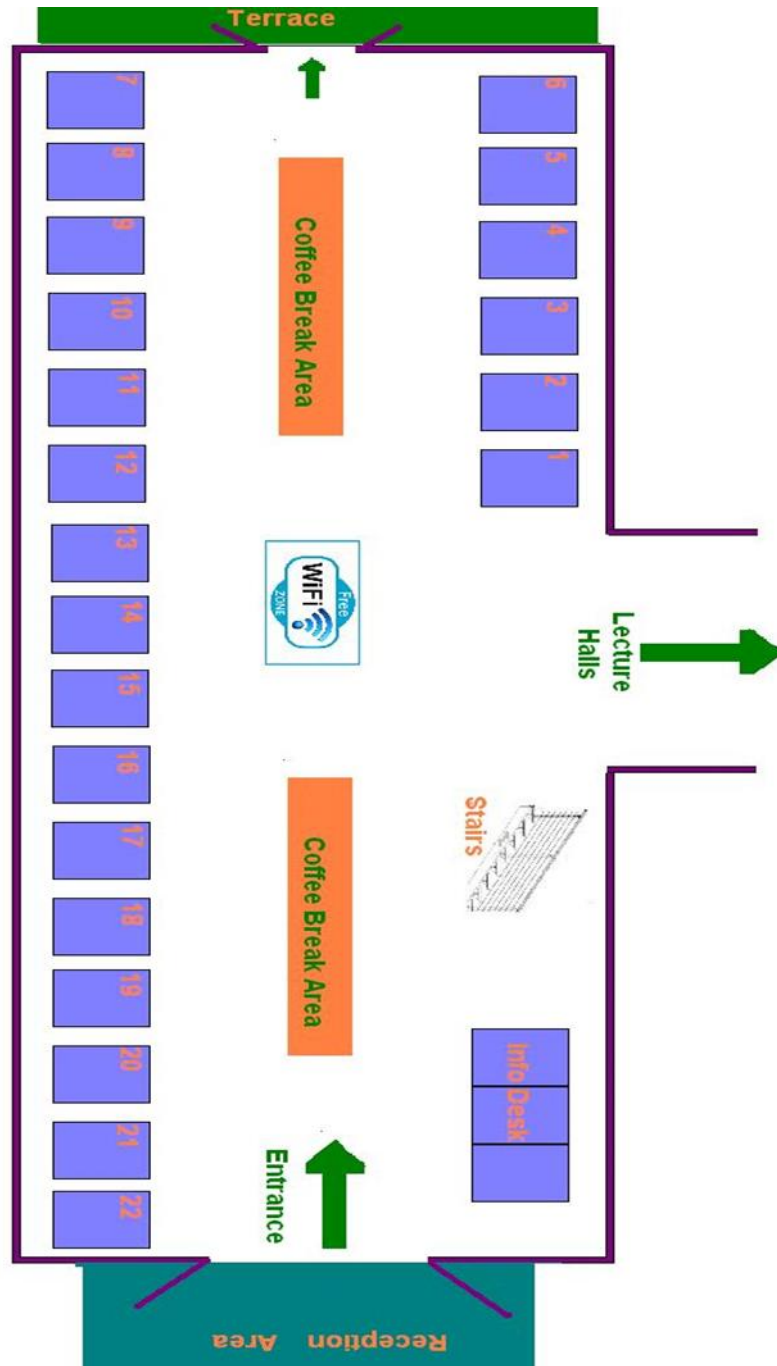


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