

The 11th International Conference on Materials & Mechanisms of Superconductivity (M2S) CICG, Geneva, Switzerland 23 - 28 August 2015

FINAL PROGRAMME



TABLE OF CONTENTS

1	Wel	come to M2S 2015!	4
2	Con	nmittees	5
	2.1	Local Organising Committee	5
	2.2	International Advisory Committee	
3	Awa	ards	
	3.1	The Kamerlingh Onnes Prize	
	3.2	Bernd T. Matthias Prize	
	3.3	John Bardeen Prize	
4	Sup	porting Organisations	
5	Exh	ibitors and Sponsors	
6	Con	ference Venue and Floor Plans	
7	Reg	istration Fees	
8	Pra	ctical Information	
	8.1	Registration Desk	
	8.2	WiFi	
	8.3	Speaker Preview Room	
	8.4	Posters	
	8.5	Disclaimer	
9	Pro	gramme at a Glance	
10	Det	ailed Programme	
	10.1	Poster Sessions	
11	Gen	neral information	
	11.1	Date and Place of M2S 2015	
	11.2	Getting to Geneva	
	11.3	Getting to the Congress Venue	
	11.4	Getting to the Public Lecture	
	11.5	Getting to the Conference Dinner	
	11.6	About Geneva	

3

1. WELCOME TO M2S 2015!

Welcome to Switzerland, welcome to the international Conference on Materials and Mechanisms of Superconductivity, M2S-2015.

M2S-2015 is the 11th in the successful series of tri-annual conferences on materials and mechanisms of superconductivity. The conference series began in 1988 in Interlaken in the wake of the discovery of high superconductivity by the Swiss Nobel Prize winners Georges Bednorz and Karl Alex Müller. The meeting has since then taken place in Palo Alto, Kanazawa, Grenoble, Beijing, Houston, Rio de Janeiro, Dresden, Tokyo, Washington and now will return to Switzerland in the summer of 2015.

The M2S conference series is a vibrant forum for new materials, mechanisms, and phenomena of superconductivity. The conferences are dedicated to all aspects of basic superconductivity and its applications. Searching for new superconductors and understanding the mechanisms for high-temperature superconductivity are key issues in condensed matter physics and materials science. The recent discovery of superconductivity at 190 Kelvin in pressurized H₂S, and transient superconductivity close to room temperature using excitation with infrared light leads us closer to the dream of superconductivity at room temperature.

We are honored by the participation of numerous great scientists. Important highlights are: The meeting kicks off with three lectures by Prof. Karl Alexander Müller, Nobel prize in physics 1987, by Prof. Anthony J. Leggett, Nobel prize in physics 2003, and Prof. Rolf Heuer, Director general of CERN. On Monday evening, 24th August the Kamerlingh-Onnes Prize will be awarded to Prof. Gill Lonzarich, the Bardeen Prize to Prof. Vinai Ambegaokar and the Matthias prize to Profs. Xianhui Chen, Zachary Fisk and Zhongxian Zhao jointly. The evening of Tuesday, 25th August features a public lecture by J. Georg Bednorz, Nobel prize in physics 1987, IBM Research Zurich, and Louis Taillefer, Professor at the University of Sherbrooke, Canada on «Superconductivity: Theory and practical challenges of a quantum phenonemon».

We wish you a vibrant week of new developments in the field and fruitful discussions. That it may bring inspiration for novel activities in science and technology, as well as education.

Dirk van der Marel Manfred Sigrist



2. COMMITTEES

2.1 Local Organising Committee

Chair

• Dirk van der Marel - Université de Genève

Co-chair

· Jean-Marc Triscone - Université de Genève

Program chair

• Manfred Sigrist - ETH Zürich

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- Carmine Senatore Université de Genève

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- Lucio Rossi CERN
- Corinna Kollath Universität Bonn
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- · Peter Johnson Brookhaven National Laboratories

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Ivan Maggio-Aprile - Université de Genève

Heike Kamerlingh-Onnes Prize Chair

Gabriel Aeppli - Paul Scherrer Institut

Bernd T. Matthias Prize Chair

• Paul Chu - University of Houston Texas

John Bardeen Prize Chair

Anthony J. Leggett - University of Illinois at Urbana-Champaign

2.2 International Advisory Committee

- Elihu Abrahams UC Los Angeles (USA)
- Gabriel Aeppli University College London (UK)
- Henri Alloul Université de Paris Sud (France)
- Yoichi Ando Osaka University (Japan)
- James Annett University of Bristol (UK)
- Evgeny V Antipov Lomonosov Moscow State University (Russia)
- Hideo Aoki University of Tokyo (Japan)
- Meigan Aronson Stony Brook University (USA)
- Elisa Baggio-Saitovitch Centro Brasileiro de Pesquisas Físicas Rio de Janeiro (Brasil)
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- Yun kyu Bang POSTECH, Pohang (Korea)
- Elena Bascones Instituto de Ciencia de Materiales de Madrid (Spain)
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- · Collin Broholm John's Hopkins University Baltimore (USA)
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- Paul Canfield Iowa State University (USA)
- Massimo Capone Scuola Internazionale Superiore di Studi Avanzati (Italy)
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- Sudip Chakravarty UC Los Angeles (USA)
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- Israel Felner Hebrew University Jerusalem (Israel)
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- Zacharias Fisk UC Davis (USA)

- Rene Flukiger Université de Genève (Switzerland)
- Eduardo Fradkin University of Illinois Urbana Champaign (USA)
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- Boris Gorshunov Russian Academy of Science Moscow (Russia)
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- Igor Mazin NRL Washington (USA)
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- Andy Millis Columbia University (USA)
- Kazumasa Miyake Toyota Physical and Chemical Research Institute, Nagoya (Japan)
- Pierre Monceau Institut Néel Grenoble (France)
- Karl Alex Müller Universität Zürich (Switzerland)
- Dominik Munzar Masaryk University Brno (Czech Republic)
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- Hans-Rudolf Ott ETH Zürich (Switzerland)
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- Fulvio Parmigiani University of Trieste (Italy)
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- Kosmas Prassides Durham University (UK)
- Peter Prelovsek University of Ljubliana (Slovenia)
- Marina Putti Università di Genova (Italy)
- Mohit Randeria Bose National Centre for Basic Sciences Kolkata (India)
- Bernard Raveau Ohio State University (USA)
- Arup Kumar Raychaudhuri Université de Caen (France)
- T.Maurice Rice ETH Zürich (Switzerland)
- Subir Sachdev Harvard University (USA)
- Alain Sacuto Université Paris Diderot (France)
- G. A. Sawatzky University of British Columbia (Canada)
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- Qimiao Si Rice University Houston (USA)
- Jozef Spalek Jagiellonian University Krakow (Poland)
- Frank Steglich MPI for Chemical Physics of Solids Dresden (Germany)
- Greg Stewart University of Florida Gainesville (USA)
- Oleg Sushkov University of New South Wales (Australia)
- Hidenori Takagi MPI für Festkörper Forschung Stuttgart (Japan)
- Jeffrey Tallon Victoria University of Wellington (New Zealand)
- Joe Thompson Los Alamos National Laboratories (USA)
- Yoshinori Tokura University of Tokyo (Japan)
- Erio Tosatti Scuola Internazionale Superiore di Studi Avanzati Trieste (Italy)
- John Tranquada Brookhaven National Lab Upton (USA)
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- Valerii Vinokur Argonne National Laboratory (USA)
- Dieter Vollhardt Universität Augsburg (Germany)
- Nan Lin Wang Chinese Academy of Sciences Beijing (China)
- Hai-Hu Wen Nanjing University (China)
- Jochen Wosnitza Dresden High Magnetic Field Laboratory (Germany)
- Karol Wysokinski Maria Curie Sklodowska University Lublin (Poland)
- Huiqiu Yuan Zhejiang University Hangzhou (China)
- Eli Zeldov Weizmann Institute Rehovot (Israel)
- Fu-chun Zhang Hong Kong University (China)
- Zhong Xian Zhao Chinese Academy of Sciences Beijing (China)

3. AWARDS

3.1 The Kamerlingh Onnes Prize

The KAMERLINGH ONNES PRIZE was established in 2000 by the organizers of the International Conference on the Materials and Mechanisms of Superconductivity (M2S) in honor of Prof. Heike Kamerlingh Onnes who discovered superconductivity in 1911. It is awarded every three years at the M2S Conference, for outstanding experiments which illuminate the nature of superconductivity other than materials. The award is sponsored by Elsevier, Publisher of Physica C - Superconductivity and its Applications. The Prize consists of 7,500 € and a certificate.

The 2015 Kamerlingh Onnes Prize Winner is:

Professor Gilbert Lonzarich of the University of Cambridge for visionary experiments concerning the emergence of superconductivity among strongly renormalized quasiparticles at the edge of magnetic order.

Prize chair

Gabriel Aeppli Paul Scherrer Institut, Swiss Light Source, Villigen (Switzerland)

Committee

Aharon Kapitulnik Stanford University (USA) George Sawatzky University of British Columbia (Canada) Teun Klapwijk Delft University (Netherlands) Shin-Ichi Uchida Tokyo University (Japan)

3.2 Bernd T. Matthias Prize

The **BERND T. MATTHIAS PRIZE**, created in 1989 by friends and colleagues and originally sponsored by AT&T Bell Labs, is awarded in recognition of innovative contributions to the material aspects of superconductivity. Since 2000, the Prize has been sponsored by the Texas Center for Superconductivity at the University of Houston, whose founding director, Paul C. W. Chu, was Matthias' former student. The Prize consists of 6000 USD and a certificate.

The 2015 Bernd T. Matthias Prize is awarded to

- Professor Xianhui Chen of the University of Science and Technology of China for his discovery of (Li,Fe)OHFe(Se,S), Ybx(Me)yHfNCI (Me= NH₃ and THF), and doped phenanthrene, broadening the material base for superconducting studies.
- **Professor Zachary Fisk** of the University of California Irvine for the discovery of UBe13, UPt3, ThCoC₂ and LaRhSi₃, for unraveling the roles of heavy fermions and non-centrosymmetry in superconductivity.
- **Professor Zhongxian Zhao** of the Institute of Physics, Chinese Academy of Sciences, Beijing, for the discovery of RE(O,F) and (RE)O_{1-x}FeAs (RE = rare earth) with a T_c up to 55 K, demonstrating the limit of T_c in bulk Fe-based superconductors.

Prize chair and contact

Paul C.W. Chu Texas Center for Superconductivity University of Houston Science Center – 202 Houston, TX 77204-5002 USA Phone: (713) 743-8222; Fax: (713) 743-8201 E-mail: cwchu@uh.edu cc: sbutler@uh.edu

Committee

Ivan Bozovic Brookhaven National Laboratory (USA) Guy Deutscher Tel Aviv University (Israel) Hideo Hosono Tokyo Institute of Technology (Japan) Hai-Hu Wen Nanjing University (China)

3.3 John Bardeen Prize

The JOHN BARDEEN PRIZE was established in 1991 by the organizers of the International Conference on the Materials and Mechanisms of Superconductivity (M2S) in honor of Dr. John Bardeen for «theoretical work that has provided significant insights on the nature of superconductivity and has led to verifiable predictions». This prize is funded by the Physics Department at the University of Illinois, with an award of \$6000 to the recipient and a certificate.

The 2015 John Bardeen Prize Winner is:

Dr. Vinay Ambegaokar, Goldwin Smith Professor of Physics Emeritus at Cornell University for his contributions to the statics, dynamics and kinetics of Josephson junctions and nanowires.

Prize chair and contact

Anthony J. Leggett Institute for Condensed Matter Theory University of Illinois 1110 W. Green Street Urbana IL 61801-3080, USA

Committee

A.F. Andreev Kapitza Institute for Physical Problems, Moscow (Russia) S.A.Kivelson Stanford University, Stanford, CA (USA) N.Nagaosa Dept.of Applied Physics, Tokyo University, Tokyo (Japan) N-P.Ong Dept.of Physics, Princeton University, Princeton, NJ (USA)

SUPPORTING ORGANISATIONS

- 1. University of Geneva
- 2. Canton of Geneva
- 3. Geneva Tourism
- 4. CICG
- 5. MaNEP
- 6. PSI (Paul Scherrer Institute)
- 7. Gordon and Betty Moore Foundation
- 8. ETHZ
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- 10. IUPAP
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www.teco-rene-koch.com



TECO Rene Koch is hosting in its booth Lake Shore Cryotronics, Janis Research Company and the Sumitomo Cryogenics Group.

Lake Shore Cryotronics is the world leader in temperature sensors and instrumentation, magnetic sensors and instrumentation, material characterization systems like Vibrating Sample Magnetometers, the innovative new Terahertz Spectrometer, a range of Hall Measurement Systems, new also combined with a one of their cryogen-free Probe Station platform.

Janis Research Company offers a complete range of high quality wet and dry Cryostats, including superconducting magnets with He-3 and DR's inserts, also in UHV versions.

SHI Cryogenics group is the leading supplier for closed cycle refrigerators offering a complete range of 10K and 4K Gifford McMahon and Pulse Tube refrigerators, widely used for the cryogen-free systems made at Lake Shore and Janis.

We would be happy to meet you at this event.

SUPEROX www.superox.ru/en/



SuperOx company was founded in 2006 with a goal to establish production of textured hightemperature superconductor coatings on metal substrates – second generation high temperature superconducting tapes (2G HTS). The equipment built with materials can change the image of the modern energy and transport industry. As well, 2G HTS tapes enable the production of far more efficient magnetic equipment for research and medicine. Due to unique electric and physical properties of high temperature superconductors, the application of 2G HTS tapes results in unique and superior qualities of power cables, fault current limiters, transformers, motors, generators, energy storage systems and magnets. Superconducting equipment is of high power, is compact, efficient and environment-friendly.

The company's intellectual property is based on more than the 20-year experience in deposition of complex oxide coatings and studying properties of HTS materials. The company's staff has published over 100 articles in the leading science journals in the field of HTS materials, acquired number of patents and registered more than 20 know-hows.

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6. CONFERENCE VENUE AND FLOOR PLANS

Conference Venue

Address: 17 rue de Varembé, 1211 – Geneva 20 T: +41 22 791 91 11 Email: info@cicg.ch Website: www.cicg.ch



17



Level -1







Exhibition Floorplan



7. REGISTRATION FEES

CATEGORIES	Early-Bird (until 16 June 2015)	LATE REGISTRATION (FROM 17 JUNE 2015)	Onsite registration
Delegates	650 CHF	750 CHF	850 CHF
STUDENTS	500 CHF	600 CHF	700 CHF
1-DAY REGISTRATION	-	-	300 CHF
2-DAY REGISTRATION	-	-	600 CHF
1-DAY REGISTRATION (STUDENTS)	-	-	250 CHF
2-DAY REGISTRATION (STUDENTS)	-	-	500 CHF
Acc. Person	75 CHF	75 CHF	75 CHF
CONFERENCE DINNER	100 CHF	100 CHF	100 CHF

All prices quoted in Swiss Franks (CHF) not including VAT.

Included in the registration fee:

• Access to the sessions and exhibition (not included for Accompanying Persons)

- Coffee breaks
- Welcome Reception on Sunday, 23 August 2015.

8. PRACTICAL INFORMATION

8.1 Registration Desk

8.1.1 Opening hours

Sunday, 23 August :	15h – 20h
Monday, 24 August:	7h30 – 20h
Tuesday, 25 August:	8h – 18h
Wednesday, 26 August:	8h – 18h
Thursday, 27 August :	8h – 17h
Friday 28, August:	8h – 13h

8.1.2 Contact

c/o Symporg SA 30 Rue Rousseau 1201 – Geneva Suisse Tel: +41 (0)22 839 84 84 Fax: +41 (0)22 839 84 85 Email: m2s2015@symporg.ch

8.2 WiFi

Free WiFi is available for all participants at the conference centre.

Wifi Network: CICG Username: M2S Password: 2015

8.3 Speaker Preview Room

A speaker preview room will be provided for all oral presentations on the first floor of the congress centre. Presentations must be in PowerPoint (MAC or PC) or Keynote (MAC) and saved on an empty USB key. All presenters must announce themselves to the AV technician in the Speaker Preview room **at least 60 minutes** before the scheduled session time. An audio, video and basic running check of the presentation will be double checked at this time.

8.3.1 Speaker Preview Opening hours

Sunday, 23 August 2015:	15h – 19h
Monday, 24 August 2015:	8h – 19h30
Tuesday, 25 August 2015:	8h – 18h
Wednesday, 26 August 2015:	8h – 18h
Thursday, 27 August 2015:	8h – 17h
Friday, 28 August 2015:	8h – 10h30

8.4 Posters

Posters are located on Level 0 and Level -1.

Please come by the registration desk if you require help to hang up the poster.

Presenting authors of posters are requested to be close to their posters at the time of their presentations, so that participants can find them.

Please check section 10.1 for details on the session times.

8.4.1 Best Poster Awards

From each Poster Session, one poster will be chosen as the Best Poster. Participants will be asked to vote and nominate a poster from each session. A ballot will be provided when you register. Please vote and bring your ballot back to the registration desk before Thursday, 27 August 2015, 15h00.

8.5 Disclaimer

8.5.1 Badges

Delegates will receive a name-badge at the reception desk, upon registration. The badge must be worn prominently in order to gain access to the congress area during all scientific and social events. Admission will be refused to anyone not in possession of an appropriate badge.

8.5.2 Insurance

Neither the organization nor the conference agency are responsible for individual medical, travel or personal insurance. Delegates are requested to arrange their own travel and health insurance. The organizers cannot assume liability for changes in the programme due to external circumstances.

9. PROGRAMME AT A GLANCE

Sunday, 23 August 2015

15h00 18h00	Registration
18h00 20h00	WELCOME RECEPTION

Monday, 24 August 2015

07h30 09h00	Registration				
			Room 1		
09h00 09h15			Opening		
09h15 10h00			Plenary 1		
			Break 30 minutes		
10h30 12h00			Plenary 2 & 3		
12h00 14h20		Р	oster Session 1 & Lunc	h	
	Room 1	Room 2	Room 3	Room 4	Room 5
14h20	Mo-S01	Mo-S02	Mo-S03	Mo-S04	Mo-S05
15h45	Cuprates mechanism	Topological SCs	2D SCs	Applications	New SC materials
			Break 25 minutes		
16h10	Mo-S06	Mo-S07	Mo-S08	Mo-S09	Mo-S10
17h45	Cuprates pseudogap	Ruthenates	Vortex Matter	Iron based SCs	Organic SC
	Break 15 minutes				
18h00			Prize Award Session		
		V. Ambegao	okar (Bardeen Prize wi	inner 2015)	
		G. Lonzarich (K	amerlingh-Onnes Priz	e winner 2015)	
19h30	X. Chen, Z. Fisk, Z. Zhao (Matthias Prize winners 2015)				

Tuesday, 25 August 2015

			Room 1		
08h30					
09h15			Plenary 4 & 5		
09h15					
10h00					
			Break 30 minutes		
	Room 1	Room 2	Room 3	Room 4	Room 5
10h30	Tu-S11	Tu-S12	Tu-S13	Tu-S14	Tu-S15
	Cuprates Charge order	Iron based SCs	Artificially	Topological SCs	Anderson-Higgs
		transport	structured SC		
12h20					
12h20		D	actor Soccion 2 & Lunc	h	
14h20		r	uster Session 2 & Lunc		
14h20	Tu-S16	Tu-S17	Tu-S18	Tu-S19	Tu-S20
	Cuprates pseudogap	Phenomenological	Structured	New SC materials	Cuprates dynamics
15h45		theories of SC	SCs - proximity		
			Break 25 minutes		
16h10	Tu-S21	Tu-S22	Tu-S23	Tu-S24	Tu-S25
	Cuprates charge order	Ruthenates & heavy	Vortex Matter	Devices	Cuprates pseudogap
17h45		Fermions			
17h45		Dues	k 0 maya ta nuhlis las	4	
19h00	Break & move to public lecture				
19h00			Public Lecture		
20h30	Auditoire Piaget, Bâtiment Uni Dufour, Université de Genève, Rue du Conseil Général 20				

Wednesday, 26 August 2015

			Room 1		
08:30					
09:15 09:15			Plenary 6 & 7		
10:00					
			Break 30 minutes		
	Room 1	Room 2	Room 3	Room 4	Room 5
10h30 12h20	We-S26 Cuprates Fermi surfaces	We-S27 Fe-pnctide SC phase diagram	We-S28 Time reversal symmetry breaking	We-S29 Heavy Fermion SC	We-S30 FeSe/STO SC
12h20 14h20		P	oster Session 3 & Lunc	h	
14h20 15h45	We-S31 Cuprates dynamics	We-S32 Structured SC - proximity	We-S33 New SC materials	We-S34 Time resolved spectroscopy	We-S35 Cuprates mechanisms
			Break 25 minutes		
16h10 17h45	We-S36 Cuprates pseudogap	We-S37 Ruthenates	We-S38 New SC materials	We-S39 Vortex matter	We-S40 Cuprates charge order
			Break 15 minutes		
18h00 20h00	Memorial Symposium				

26

Thursday, 27 August 2015

			Room 1		
08:30					
09:15					
09:15			Plenary 8 & 9		
10:00					
			Break 30 minutes		
	Room 1	Room 2	Room 3	Room 4	Room 5
10h30	Th-S41	Th-S42	Th-S43	Th-S44	Th-S45
	Cuprates charge order	Iron-based SC	Artificially structured	Disordered SCs	Topological SCs
12h20		spectroscopy	SC - LAO/STO		
12h20		D	ostor Sossion 4 & Lunc	h	
15h00		•	oster Jession 4 & Lunc		
15h00	Th-S46	Th-S47	Th-S48	Th-S49	Th-S50
	Cuprates spectroscopy	Iron based mechanism	Applications	Strong	high Tc mechanisms
16h50				pair-correlations	
16h50	Prosk & move to Conference Dinner				
19h30	Dreak & move to comercice Dimer				
19h30	Conference Dinner				
22h00	BFM				

Friday, 28 August 2015

	Room 1	Room 2	Room 3	Room 4	Room 5
8h30	Fr-S51	Fr-S52	Fr-S53	Fr-S54	Fr-S55
	Cuprates dynamics	Hydrogen sulfide SC	Artificially structured	AdS/CFT & SC	Organic and high Tc
10h20			SC - LAO/STO		
	Break 30 minutes				
	Room 1				
10h50	Diamany 10.0.11				
12h20	Pienary 10 & 11				
12h20	Classing				
12h40			closing		

10. DETAILED PROGRAMME

Sunday, 23 August 2015

15:00 - 18:00	Registration	Welcome Desk Level 0
18:00 - 20:00	Welcome Reception	Exhibition Area Level 0



Monday, 24 August 2015

7:30 - 9:00	Registration Welcome Desk Level 0
09:00-09:15	Opening CeremonyRoom 1Chair: Dirk van der Marel, SwitzerlandSpeaker: Yves Flükiger, Switzerland
9:15 - 10:00	Plenary 1: Some Unique Properties of Superconductivity in CupratesRoom 1Karl-Alex Müller, SwitzerlandKarl-Alex Müller, Switzerland
10:00 - 10:30	Coffee Break Exhibition Area
10:30 - 11:15	Plenary 2: High-temperature superconductivity: some energetic considerationsRoom 1Anthony J. Leggett, USAChair: Laura H. Greene, USA
11:15 - 12:00	Plenary 3: Superconductivity and CERN Room 1 Rolf Heuer, Switzerland Roir: Laura H. Greene, USA
12:00 - 14:20	Poster Session 1 & Lunch Level 0 & Level -1 Posters A – J, Odd numbers Topics: - Cold atoms - Cuprate superconductors - Spectroscopies - Heavy fermion superconductors - New superconducting materials - Mechanisms - Miscellaneous - New perspectives - Organic superconductors - Two-dimensional superconductivity
14:20 - 15:45	Mo-S01 Cuprates MechanismRoom 1Chair: M. Kagan
14:20 - 14:50	Keynote: Mechanism and phenomenology of superconductivity in HTS cuprates Jeffrey Tallon, New Zealand
14:50 - 15:15	Invited Talk 1: Is magnetism relevant to cuprate superconductivity: lanthanides versus charge compensated 123 Amit Keren, Israel
15:15 - 15:30	Contributed Talk 1: Mott physics in the three-band model of the CuO₂ plane <i>Giovanni Sordi, United Kingdom</i>
15:30 - 15:45	Contributed Talk 2: Charge Excitation in L-Edge Resonant Inelastic X-Ray Scattering: Detecting Enhanced Small- Momentum Charge Fluctuation of Underdoped Electron-Doped Cuprates Takami Tohyama, Japan

14:20 - 15:45	Mo-S02 Topological Superconductors Chair: Boris Shapiro, Israel	Room 2
14:20 - 14:50	Keynote: Topological superconductivity: criterions, mechanisms and candidate materials <i>Liang Fu, USA</i>	
14:50 - 15:15	Invited Talk 1: Odd-frequency pairing and Andreev bound states Yukio Tanaka, Japan	
15:15 - 15:30	Contributed Talk 1: Superconductivity in topological half-Heusler compounds Anne de Visser, The Netherlands	
15:30 - 15:45	Contributed Talk 2: Topological superconductivity in heavy fermion superlattices <i>Youichi Yanase, Japan</i>	
14:20 - 15:45	Mo-S03 2D Superconductors Chair: Richard Hlubina, Slovakia	Room 3
14:20 - 14:50	Keynote: Superconductivity in two-dimensional interfaces: Design principle for TRS-breaking and topological superconductivity Joerg Schmalian, Germany	
14:50 - 15:15	Invited Talk 1: Interplay Between Magnetism and superconductivity in the Two-Dimensonal Electron Liquid at the Surface of SrTiO ₃ Olivier Hijano-Cubelos, France	he
15:15 - 15:30	Contributed Talk 1: Remarkable effects of disorder on superconductivity of single atomic layers of lead on silicor Christophe Brun, France	n
15:30 - 15:45	Contributed Talk 2: Scanning Tunneling Spectroscopy of Josephson Vortices in the Surface Superconductor Si(111)-($\sqrt{7} \times \sqrt{3}$)-In Shunsuke Yoshizawa, Japan	
14:20 - 15:45	Mo-SO4 Applications	Doom 4
	Chair: René Flükiger, Switzerland	K00III 4
14:20 - 14:50	Chair: René Flükiger, Switzerland Keynote: Progress in nanostructured coated conductor research and development Xavier Obradors, Spain	KOOIII 4
14:20 - 14:50 14:50 - 15:15	Chair: René Flükiger, Switzerland Keynote: Progress in nanostructured coated conductor research and development Xavier Obradors, Spain Invited Talk 1: The Call of High Energy Physics: LTS or HTS ? Luca Bottura, Switzerland	KOOIII 4
14:20 - 14:50 14:50 - 15:15 15:15 - 15:30	Chair: René Flükiger, Switzerland Keynote: Progress in nanostructured coated conductor research and development Xavier Obradors, Spain Invited Talk 1: The Call of High Energy Physics: LTS or HTS ? Luca Bottura, Switzerland Contributed Talk 1: Impact of fundamental material properties of REBCO-tapes on cable applications Wilfried Goldacker, Germany	
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14:20 - 14:50 14:50 - 15:15 15:15 - 15:30 15:30 - 15:45 14:20 - 14:50	Chair: René Flükiger, Switzerland Keynote: Progress in nanostructured coated conductor research and development Xavier Obradors, Spain Invited Talk 1: The Call of High Energy Physics: LTS or HTS ? Luca Bottura, Switzerland Contributed Talk 1: Impact of fundamental material properties of REBCO-tapes on cable applications Wilfried Goldacker, Germany Contributed Talk 2: Tomographic examination of superconductors Christian Scheuerlein, Switzerland Mo-S05 New SC materials Chair: Enrico Giannini, Italy Keynote 1: Phase diagram and gated-tuned superconductor-insulator transition in (Li,Fe)OHFeSe Xianhui Chen, China	Room 5
14:20 - 14:50 14:50 - 15:15 15:15 - 15:30 15:30 - 15:45 14:20 - 15:45 14:20 - 14:50 14:50 - 15:20	Chair: René Flükiger, Switzerland Keynote: Progress in nanostructured coated conductor research and development Xavier Obradors, Spain Invited Talk 1: The Call of High Energy Physics: LTS or HTS ? Luca Bottura, Switzerland Contributed Talk 1: Impact of fundamental material properties of REBCO-tapes on cable applications Wilfried Goldacker, Germany Contributed Talk 2: Tomographic examination of superconductors Christian Scheuerlein, Switzerland Mo-SO5 New SC materials Chair: Enrico Giannini, Italy Keynote 1: Phase diagram and gated-tuned superconductor-insulator transition in (Li,Fe)OHFeSe Xianhui Chen, China Keynote 2: Basic Properties of New (Li,Fe)OHFeSe Superconductors Xingjiang Zhou, China	Room 5

15:45 - 16:10	Coffee Break Exhibit	ion Area Level 0
16:10-17:45	Mo-S06 Cuprates - Pseudogap Chair: Rolf Lortz, Hong Kong	Room 1
16:10 - 16:40	Keynote: Interplay of d-symmetry Density Waves and d-symmetry Cooper Pairing in the Cuprate Pseudogap Regime JC Seamus Davis, USA	ie
16:40 - 17:05	Invited Talk 1: Amperean pairing and the pseudo-gap state of cuprate superconductors. <i>Patrick Lee, USA</i>	
17:05 - 17:30	Invited Talk 2: Ultrafast carrier localisation in the pseudogap state of cuprate superconductors Dragan Mihailovic, Slovenia	
17:30 - 17:45	Contributed Talk 1: Onset of nematicity in the pseudogap phase of the cuprate superconductor YBa ₂ Cu ₃ O _y : Interpla charge order and superconductivity Olivier Cyr-Choinière, Canada	y with
16:10 - 17:45	Mo-S07 Ruthenates Chair: Clifford Hicks, Germany	Room 2
16:10 - 16:40	Keynote: Developments in Understanding Superconductivity in Sr₂RuO₄ <i>Catherine Kallin, Canada</i>	
16:40 - 17:05	Invited Talk 1: Spin-orbit entanglement and the breakdown of singlets and triplets in Sr₂RuO₄ <i>Maurits W. Haverkort, Germany</i>	
17:05 - 17:30	Invited Talk 2: Spin-Orbital Coupling in a Triplet Superconductor-Ferromagnet Junction Paola Gentile, Italy	
17:30 - 17:45	Contributed Talk 1: Fermi liquid behaviour in strongly correlated metals Damien Stricker, Switzerland	
16:10 - 17:45	Mo-S08 Vortex Matter Chair: Marcin Kończykowski, France	Room 3
16:10 - 16:40	Keynote: Vortex confinement in nano-scale superconductors Dimitri Roditchev, France	
16:40 - 17:05	Invited Talk 1: Single vortex dynamics at the nanoscale Eli Zeldov, Israel	
17:05 - 17:30	Invited Talk 2: Scanning Hall probe microscopy of vortex matter in type-1, type-1.5 and type-2 superconductors Victor Moshchalkov, Belgium	
17:30 - 17:45	Contributed Talk 1: Campbell response in type II superconductors under strong pinning conditions Vadim Geshkenbein, Switzerland	
16:10 - 17:45	Mo-S09 Iron based Superconductors Chair: Dmytro Inosov, Germany	Room 4
16:10 - 16:40	Keynote: Orbital-driven nematicity in FeSe Bernd Buechner, Germany	
16:40 - 17:05	Invited Talk 1: Magnetic, structural and superconducting phase diagram in bulk Fe chalcogenides: role of nematic fluctuations and biquadratic exchange. Igor Mazin, USA	

17:05 - 17:30	Invited Talk 1: Neutron investigation of the ferromagnetic superconductor (Li-Fe)FeSeOD Jeffrey Lynn, USA
17:30 - 17:45	Contributed Talk 2: New Superconductivity Dome in LaFeAsO_{1-x}F_x Accompanied by Structural Transition <i>Guo-qing Zheng, Japan</i>
16:10-17:45	Mo-S10 Organic SuperconductorsRoom 5Chair: Michael Sadovskii, Russia
16:10 - 16:40	Keynote: Recent studies on unconventional superconductivity in (TMTSF)₂X Shingo Yonezawa, Japan
16:40 - 17:05	Invited Talk 1: Magnetism and electron-phonon interaction in the emergence of organic superconductivity Claude Bourbonnais, Canada
17:05 - 17:30	Invited Talk 2: Strongly Correlated Superconductivity in Molecular Conductors: Electronic Correlations, electron-phonon coupling and the Phase diagram of Cs ₃ C ₆₀ Massimo Capone, Italy
17:30 - 17:45	Contributed Talk 1: NMR study of the FFLO phase in the organic superconductor β "-(ET) ₂ SF ₅ CH ₂ CF ₂ SO ₃ Stuart Brown, USA
17:45 - 18:00	Short Break Level 0
18:00 - 19:30	Prize Award SessionRoom 1Chair: M. Sigrist, SwitzerlandLaudatio by Anthony J. LeggettVinay Ambegaokar (Bardeen Prize winner 2015)Laudatio by Gabriel AeppliGilbert Lonzarich (Kamerlingh-Onnes Prize winner 2015)Laudatio by Paul (C.W.) ChuXianhui Chen, Zachary Fist and Zhongxian Zhao (Matthias Prize winners 2015)

Tuesday, 25 August 2015

08:30 - 09:15	Plenary 4: Iron-based Superconductors : recent progressRoom 1Hideo Hosono, JapanChair: Jacques Flouquet, France
09:15 - 10:00	Plenary 5: X-ray scattering investigations of CDW correlations in high-Tc cupratesRoom 1Matthieu Le Tacon, Germany Chair: Jacques Flouquet, FranceRoom 1
10:00 - 10:30	Coffee Break Level 0
10:30 - 12:20	Tu-S11 Cuprates Charge orderRoom 1Chair: Andrzej Oles, Poland
10:30 - 11:00	Keynote: Axial charge order in the cuprates: broken symmetries, interplay with pair-density-wave, and the effect on superconductivity Andrey V. Chubukov, USA
11:00 - 11:25	Invited Talk 1: Elusive charge-density-wave order is becoming manifest: a bridge between underdoped and overdoped Cuprate Superconductors. Carlo Di Castro, Italy
11:25 - 11:50	Invited Talk 2: Subtle properties of charge order in cuprates studied by resonant x-ray spectroscopy and scattering Giacomo Ghiringhelli, Italy
11:50 - 12:05	Contributed Talk 1: Long-range order and pinning of charge-density waves in competition with superconductivity Dror Orgad, Israel
12:05 - 12:20	Contributed Talk 2: The energy spectrum of superconducting cuprates in the pseudogap phase Gregory Teitel'baum, Russia
10:30 - 12:20	Tu-S12 Iron-based Superconductor transportRoom 2Chair: Bertram Batlogg, Switzerland
10:30 - 11:00	Keynote: Josephson Vortices in Iron-Pnictide Superconductors Philip Moll, USA
11:00 - 11:25	Invited Talk 1: Anomalies in magnetotransport of iron pnictides due to «hot-spot» scattering and Fermi-surface reconstruction Alexei Koshelev, USA
11:25 - 11:50	Invited Talk 2: Divergent nematic susceptibility of optimally doped Fe-based superconductors Jiun-Haw Chu, USA
11:50 - 12:05	Contributed Talk 1: Fermi surface in FeSe: Quantum oscillation measurements Shigeru Kasahara, Japan
12:05 - 12:20	Contributed Talk 2: Interplay between strong correlations and superconductivity in AFe₂As₂ with A = K, Rb, and Cs <i>Kai Grube, Germany</i>

10:30 - 12:20	Tu-S13 Artificially structured Superconductors Chair: Gad Koren, Israel	Room 3
10:30 - 11:00	Keynote: Two-dimensional Kondo Superlattices Yuji Matsuda, Japan	
11:00 - 11:25	Invited Talk 1: Nanoscopic disorder, intrinsic charge instability and metal-to-superconductor transition in oxide heterostructures Marco Grilli, Italy	
11:25 - 11:50	Invited Talk 2: Muti-band and multi-dome superconductivitivity and in n-doped SrTiO ₃ <i>Kamran Behnia, France</i>	
11:50 - 12:05	Contributed Talk 1: Tunable spin polarization and superconductivity in LAO/ETO/STO heterostructure Daniela Stornaiuolo, Italy	
12:05 - 12:20	Contributed Talk 2: Top gating control of superconductivity at the LaAlO ₃ /SrTiO ₃ interfaces Nicolas Bergeal, France	
10:30 - 12:20	Tu-S14 Topological Superconductors Chair: Wei Chen, China	Room 4
10:30 - 11:00	Keynote: Coherent manipulation of a Cooper pair in a superconducting atomic contact Cristian Urbina, France	
11:00 - 11:25	Invited Talk 1: Emergent surface superconductivity of nanosized Dirac puddles in a topological insulator Lia Krusin-Elbaum, USA	
11:25 - 11:50	Invited Talk 2: Odd-frequency superconductivity in topological insulators and multiband superconductors Annica Black-Schaffer, Sweden	
11:50 - 12:05	Contributed Talk 1: Giant Nernst effects due to Berry phase fluctuation in chiral superconductors Satoshi Fujimoto, Japan	
12:05 - 12:20	Contributed Talk 2: Topological superconductivity from phonons <i>Philip Brydon, USA</i>	
10:30 - 12:20	Tu-S15 Anderson Higgs Chair: Stuart Barnes, USA	Room 5
10:30 - 11:00	Keynote: Spontaneous symmetry breaking: from superconductivity to the Higgs boson and back again John Ellis, USA	
11:00 - 11:25	Invited Talk 1: Dynamics of two-dimensional bosonic superconductors Assa Auerbach, Israel	
11:25 - 11:50	Invited Talk 2: Time-resolved study of Higgs amplitude mode in s-wave superconductors Ryo Shimano, Japan	
11:50 - 12:05	Contributed Talk 1: Theory for superconductors in non-equilibrium: Higgs oscillations and generation of coheren phonons Dirk Manske, Germany	nt
12:05 - 12:20	Contributed Talk 2: Amplitude «Higgs» mode under pressure in 2H-NbSe₂ superconductor <i>Romain Grasset, France</i>	

12:20 - 14:20	Poster Session 2 & Lunch Level 0 Posters A – J, Even numbers Topics: 7 Cold atoms - Cold atoms - Cuprate superconductors - Spectroscopies - Heavy fermion superconductors - New superconducting materials - Mechanisms - Miscellaneous - New perspectives - Organic superconductors - Two-dimensional superconductivity	0 & Level 1
14:20 - 15:45	Tu-S16 Cuprates Pseudogap Chair: Dionys Baeriswyl, Switzerland	Room 1
14:20 - 14:50	Keynote: Intra-Unit-Cell magnetic correlations near optimal doping in YBCO Philippe Bourges, France	
14:50 - 15:15	Invited Talk 1: Quantitative Determination of the Excitation spectra Responsible for High Temperature Superconductivity in Cuprates Chandra Varma, USA	
15:15 - 15:30	Contributed Talk 1: Wiedemann-Franz law in the underdoped cuprate YBCO : Constraint on the non-supercond ground state of the pseudogap phase Gael Grissonnanche, Canada	lucting
15:30 - 15:45	Contributed Talk 2: A close up into the paradigm of Hg superconductors: the case of HgBa₂CuO_{4+δ} <i>Manuel Nunez-Regueiro, France</i>	
14:20 - 15:45	Tu-S17 Phenomenological theories of Superconductors Chair: Jean-Marc Triscone, Switzerland	Room 2
14:20 - 14:50	Keynote: Alternative London electrodynamics, hole superconductivity, and the origin of the Meissner effect Jorge E. Hirsch, USA	
14:50 - 15:15	Invited Talk 1: Scaling laws for AC conductivity from Holography Elias Kiritsis, Greece	
15:15 - 15:45	Invited Talk 2: On the superconducting instabilities of metals near quantum critical points Srinivas Raghu, USA	
14:20 - 15:45	Tu-S18 Structured Superconductors - Proximity Chair: Carmine Senatore, Italy	Room 3
14:20 - 14:50	Keynote: Long range proximity effects and supercurrents in ferromagnets induced by odd-frequency triplets Jan Aarts, The Netherlands	
14:50 - 15:15	Invited Talk 1: Magnetic and Superconducting Ground State of δ-doped La₂CuO₄ Superlattices Andreas Suter, Switzerland	
15:15 - 15:30	Contributed Talk 1: Magnetotransport and superconductor-insulator transition in the Si/Nb/Si trilayers Iryna Zaytseva, Poland	
15:30 - 15:45	Contributed Talk 2: Proximity effect through YBCO/Au Nanogaps: A route for hybrid devices Reza Baghdadi, Sweden	

Tuesday

14:20 - 15:50	Tu-S19 New Superconductor materialsRoom 4Chair: Paul (C. W.) Chu, USA
14:20 - 14:50	Keynote 1: Coherence in Ce-based Heavy Fermion Superconductivity Zachary Fisk, USA
14:50 - 15:20	Keynote 2: Quantum criticality and superconductivity on the border of magnetic and dielectric quantum phase transitions Stephen E. Rowley, United Kingdom
15:20 - 15:35	Contributed Talk 1: Properties of superconductivity emerging deep into the spin-density wave state in (TMTSF) ₂ ClO ₄ Yaroslav Gerasimenko, Russia
15:35 - 15:50	Contributed Talk 2: Pressure-induced electronic phase separation in CrAs <i>Rustem Khasanov, Switzerland</i>
14:20 - 15:45	Tu-S20 Cuprates dynamicsRoom 5Chair: Jose Lorenzana, Italy
14:20 - 14:50	Keynote: Snapshots of the retarded interaction of charge carriers with ultrafast fluctuations in cuprates Claudio Giannetti, Italy
14:50 - 15:15	Invited Talk 1: The involvement of the high energy scale in High-temperature superconductivity revealed by ultrafast optical spectroscopy Fabrizio Carbone, Switzerland
15:15 - 15:30	Contributed Talk 1: Huge (~10 meV) Broadening of the Bond-Stretching Phonon Mode Below T _c in Optimally Doped YBa ₂ Cu ₃ O _{7-δ} Alfred Baron, Japan
15:30 - 15:45	Contributed Talk 2: Quantitative comparison between electronic Raman spectra and angle-resolved photoemission spectra in superconducting state of Bi2212 Kiyohisa Tanaka, Japan
15:45 - 16:10	Coffee Break Level C
16:10 - 17:45	Tu-S21 Cuprates charge orderRoom 1Chair: Nigel Hussey, The Netherlands
16:10 - 16:40	Keynote: Spin fluctuations and charge order in electron-doped cuprates Richard Greene, USA
16:40 - 17:05	Invited Talk 1: A dimer model for the pseudogap metal in underdoped cuprates Matthias Punk, Germany
17:05 - 17:30	Invited Talk 2: Atomic-layer engineering and the origin of high-T _c superconductivity in cuprates Ivan Bozovic, USA
17:30 - 17:45	Contributed Talk 1: Genesis of Charge Orders in Cuprates Ting-Kuo Lee, Taiwan
16:10 - 17:45	Tu-S24 Devices Room 2 Chair: Stefan Drechsler, Germany
16:10 - 16:40	Keynote: Spin-Triplet Proximity Effects between Ferromagnetic SrRuO₃ and Superconducting Sr₂RuO₄ <i>Yoshiteru Maeno, Japan</i>

Tuesday
16:40 - 17:05	Invited Talk 1: Collective modes of spin-triplet models of Sr ₂ RuO ₄ , UPt ₃ and ³ He-A James A. Sauls, USA
17:05 - 17:30	Invited Talk 2: Magnetic fields above the superconducting ferromagnet UCoGe Klaus Hasselbach, France
17:30 - 17:45	Contributed Talk 1: Recent advances in ferromagnetic superconductors Dai Aoki, France
16:10 - 17:45	Tu-S23 Vortex MatterRoom 3Chair: Johann W. Blatter, Switzerland
16:10 - 16:40	Keynote: Dynamic vortex Mott transition in a proximity array of superconducting islands Valerii Vinokur, USA
16:40 - 17:05	Invited Talk 1: Crossing-field magnetization and vortex cutting in superconductors Vitalii Vlasko-Vlasov, USA
17:05 - 17:30	Invited Talk 2: Upper critical field and Nernst effect in slab superconductors Samia Charfi Kaddour, Tunisia
17:30 - 17:45	Contributed Talk 1: Berry phases and the intrinsic thermal Hall effect in high temperature cuprate superconductors Oskar Vafek, USA
16:10 - 17:45	Tu-S24 DevicesRoom 4Chair: Tord Claeson, Sweden
16:10 - 16:40	Keynote: Heat interference and thermal rectification in hybrid coherent caloritronic superconducting quantum circuits Francesco Giazotto, Italy
16:40 - 17:05	Invited Talk 1: Magnetic Field Modulated Microwave Spectroscopy (MFMMS) across phase transitions and the search for new superconductors Ivan Schuller, USA
17:05 - 17:30	Invited Talk 2: Josephson magnetic memory and phase inverters for RSFQ logics Valery Ryazanov, Russia
17:30 - 17:45	Contributed Talk 1: Fluctuations in the electron system of a superconductor exposed to a photon flux <i>Pieter de Visser, The Netherlands</i>
16:10 - 17:45	Tu-S25 Cuprates pseudogapRoom 5Chair: Kazuhiro Kuboki, Japan
16:10 - 16:40	Keynote: Collapse of the Pseudogap in Cuprate Superconductors : an electronic Raman scattering study Alain Sacuto, France
16:40 - 17:05	Invited Talk 1: Two-dimensional Fermi gases Michael Koehl, Germany
17:05 - 17:30	Invited Talk 2: Infrared pseudogap in cuprate and pnictide high T _c superconductors Dimitri Basov, USA
17:30 - 17:45	Contributed Talk 1: Fluctuating orders and quenched randomness in the cuprates Laimei Nie, USA
17:45 - 19:00	Short Break and Move to Public Lecture Location Level 0

19:00 - 20:30 **Public Lecture**

Chairs: Dirk van der Marel, Switzerland & Jean-Marc Triscone, Switzerland For directions to the Public Lecture see section 11.4 of the programme.

Public Lecture: Superconductivity – from a 20th century discovery to a 21st century technology *J. Georg Bednorz, Switzerland*

Public Lecture: Superconductors: Mystery and Magic *Louis Taillefer, Canada*

38

Uni Dufour

Wednesday, 26 August 2015

08:30-09:15	Plenary 6: Superconductivity in Fullerides Kosmas Prassides, United Kingdom Chair: Antoine Georges, France	Room 1
09:15 - 10:00	Plenary 7: Interface Enhanced High Temperature Superconductivity <i>Qikun Xue, China</i> <i>Chair: Antoine Georges, France</i>	Room 1
10:00 - 10:30	Coffee Break	Level 0
10:30-12:20	We-S26 Cuprates Fermi surfaces Chair: Joël Mesot, Switzerland	Room 1
10:30 - 11:00	Keynote: Manifestation of the pseudogap in the ground state Fermi surface Suchitra Sebastian, United Kingdom	
11:00 - 11:25	Invited Talk 1: Time Resolved Pump-Probe Photoemission studies of the High T _c Cuprate Superconductors Peter Johnson, USA	
11:25 - 11:50	Invited Talk 2: Investigations of Density Wave Order and the Pseudogap in a Cuprate Superconductor Eric Hudson, USA	
11:50 - 12:05	Contributed Talk 1: Correlation strength and Tc: quantum oscillations in YBa₂Cu₄O₈ under hydrostatic pressure Carsten Putzke, United Kingdom	
12:05 - 12:20	Contributed Talk 2: Absence of Fermi pockets in an optimally doped YBa₂Cu₃O₇₋₆: A Compton scattering study Tzu-Hung Chuang, Japan	
10:30 - 12:20	We-S27 Fe-pnictide Superconductor phase diagram Chair: Brian Andersen, Denmark	Room 2
10:30 - 12:20 10:30 - 11:00	We-S27 Fe-pnictide Superconductor phase diagram Chair: Brian Andersen, Denmark Keynote: Constructing a unified understanding of iron based superconductors through the doping effects on elestructures Donglai Feng, China	Room 2 ectronic
10:30 - 12:20 10:30 - 11:00 11:00 - 11:25	We-S27 Fe-pnictide Superconductor phase diagram Chair: Brian Andersen, Denmark Keynote: Constructing a unified understanding of iron based superconductors through the doping effects on elestructures Donglai Feng, China Invited Talk 1: Universal V-shaped temperature-pressure phase diagram in the iron-based superconductors KFe RbFe ₂ As ₂ , and CsFe ₂ As ₂ Fazel Fallah Tafti, Canada	Room 2 ectronic ₂ As ₂ ,
10:30 - 12:20 10:30 - 11:00 11:00 - 11:25 11:25 - 11:50	We-S27 Fe-pnictide Superconductor phase diagram Chair: Brian Andersen, Denmark Keynote: Constructing a unified understanding of iron based superconductors through the doping effects on elestructures Donglai Feng, China Invited Talk 1: Universal V-shaped temperature-pressure phase diagram in the iron-based superconductors KFe RbFe ₂ As ₂ , and CsFe ₂ As ₂ Fazel Fallah Tafti, Canada Invited Talk 2: Electronic structure, magnetism and superconductivity in strained or doped iron chalcogenides Małgorzata Samsel-Czekała, Poland	Room 2 ectronic
10:30 - 12:20 10:30 - 11:00 11:00 - 11:25 11:25 - 11:50 11:50 - 12:05	We-S27 Fe-pnictide Superconductor phase diagram Chair: Brian Andersen, Denmark Keynote: Constructing a unified understanding of iron based superconductors through the doping effects on ele structures Donglai Feng, China Invited Talk 1: Universal V-shaped temperature-pressure phase diagram in the iron-based superconductors KFe RbFe_As_v, and CsFe_As_ Fazel Fallah Tafti, Canada Invited Talk 2: Electronic structure, magnetism and superconductivity in strained or doped iron chalcogenides Małgorzata Samsel-Czekała, Poland Contributed Talk 1: A Reentrant C4 Phase in Hole-Doped BaFe_As_ Raymond Osborn, USA	Room 2 ectronic
10:30 - 12:20 10:30 - 11:00 11:00 - 11:25 11:25 - 11:50 11:50 - 12:05 12:05 - 12:20	We-S27 Fe-pnictide Superconductor phase diagram Chair: Brian Andersen, Denmark Keynote: Constructing a unified understanding of iron based superconductors through the doping effects on elestructures Donglai Feng, China Invited Talk 1: Universal V-shaped temperature-pressure phase diagram in the iron-based superconductors KFe RbFe_As_v, and CsFe_As_ Fazel Fallah Tafti, Canada Invited Talk 2: Electronic structure, magnetism and superconductivity in strained or doped iron chalcogenides Małgorzata Samsel-Czekała, Poland Contributed Talk 1: A Reentrant C4 Phase in Hole-Doped BaFe_As_ Raymond Osborn, USA Contributed Talk 2: Nematic fluctuations in iron-based superconductors probed by Raman scattering Yann Gallais, France	Room 2 ectronic
10:30 - 12:20 10:30 - 11:00 11:00 - 11:25 11:25 - 11:50 11:50 - 12:05 12:05 - 12:20 10:30 - 12:20	We-S27 Fe-pnictide Superconductor phase diagram Chair: Brian Andersen, Denmark Keynote: Constructing a unified understanding of iron based superconductors through the doping effects on ele structures Donglai Feng, China Invited Talk 1: Universal V-shaped temperature-pressure phase diagram in the iron-based superconductors KFe RbFe_As_2, and CsFe_As_2 Fazel Fallah Tafti, Canada Invited Talk 2: Electronic structure, magnetism and superconductivity in strained or doped iron chalcogenides Małgorzata Samsel-Czekała, Poland Contributed Talk 1: A Reentrant C4 Phase in Hole-Doped BaFe_As_2 Raymond Osborn, USA Contributed Talk 2: Nematic fluctuations in iron-based superconductors probed by Raman scattering Yann Gallais, France We-S28 Time reversal symmetry breaking Chair: Graham Luke, Canada	Room 2 ectronic 2 ^{As} 27
10:30 - 12:20 10:30 - 11:00 11:00 - 11:25 11:25 - 11:50 11:50 - 12:05 12:05 - 12:20 10:30 - 12:20 10:30 - 11:00	We-S27 Fe-pnictide Superconductor phase diagram Chair: Brian Andersen, Denmark Keynote: Constructing a unified understanding of iron based superconductors through the doping effects on ele structures Donglai Feng, China Invited Talk 1: Universal V-shaped temperature-pressure phase diagram in the iron-based superconductors KFe RbFe, As,, and CsFe, As, Fazel Fallah Tafti, Canada Invited Talk 2: Electronic structure, magnetism and superconductivity in strained or doped iron chalcogenides Malgorzata Samsel-Czekala, Poland Contributed Talk 1: A Reentrant C4 Phase in Hole-Doped BaFe, As, Raymond Osborn, USA Contributed Talk 2: Nematic fluctuations in iron-based superconductors probed by Raman scattering Yann Gallais, France We-S28 Time reversal symmetry breaking Chair: Graham Luke, Canada Keynote: Time-Reversal-Symmetry-Breaking In Unconventional Superconductors Aharon Kapitulnik, USA	Room 2 ectronic ² As ₂ ,

11:25 - 11:50	Invited Talk 2: Chiral d-wave Superconductivity in SrPtAs Mark H. Fischer, USA	
11:50 - 12:05	Contributed Talk 1: Breaking time reversal symmetry with pair density wave superconductivity Daniel Agterberg, USA	
12:05 - 12:20	Contributed Talk 2: Spontaneously broken time-reversal symmetry in d-wave superconductors Mikael Fogelström, Sweden	
10:30 - 12:20	We-S29 Heavy Fermion SCRoom 4Chair: Didier Jaccard, Switzerland	
10:30 - 11:00	Keynote: Emergence of heavy-fermion superconductivity by the ordering of nuclear spins Frank Steglich, Germany	
11:00 - 11:25	Invited Talk 1: Switching of magnetic domains reveals evidence for spatially inhomogeneous superconductivity in CeCoIn _s Michel Kenzelmann, USA	
11:25 - 11:50	Invited Talk 2: Chirality density wave of the "hidden order" phase in URu₂Si₂ <i>Girsh Blumberg, USA</i>	
11:50 - 12:15	Invited Talk 3: Magnetically Mediated Cooper Pairing in Heavy Fermion Superconductors Dirk Morr, USA	
10:30-12:20	We-S30 FeSe/STO SCRoom 5Chair: Christian Hess, Germany	
10:30 - 11:00	Keynote: Recent progress on electronic nematic phase in iron pnictides <i>Pengcheng Dai, USA</i>	
11:00 - 11:25	Invited Talk 1: ARPES of single layer FeSe on STO Zhixun Shen, USA	
11:25 - 11:50	Invited Talk 2: High-temperature superconductivity in atomically thin multilayer FeSe films on SrTiO ₃ Kosuke Nakayama, Japan	
11:50 - 12:05	Contributed Talk 1: Quasiparticle Interference Imaging of One-Unit-Cell FeSe/SrTiO ₃ Dennis Huang, USA	
12:05 - 12:20	Contributed Talk 2: Direct evidence of nodeless superconductivity in single layer FeSe grown on STO revealed by Muon spin rotation spectroscopy Pabitra Kumar Biswas, Switzerland	
12:20 - 14:20	Poster Session 3 & Lunch Level 0 & Level -1 Posters K – S, Odd numbers Topics: - Superconducting devices - Iron pnictide superconductors - Other superconductors - Bulk applications - Superconductivity in artificially structured systems - Topological superconductors - Transport and thermodynamic properties - Vortex matter - Superconductivity in ruthenates and related materials	

14:20 - 15:40	We-S31 Cuprates - dynamicsRoom 1Chair: Mauro Doria, Brazil
14:20 - 14:50	Keynote: Non-Equilibrium momentum dependent dynamic of unconventional superconductors Alessandra Lanzara, USA
14:50 - 15:15	Invited Talk 1: Witnessing quasi-particles in a strongly correlated electron system Daniele Fausti, Italy
15:15 - 15:40	Invited Talk 2: The dynamics of the quasiparticle in various cuprate models Mona Berciu, Canada
14:20 - 15:45	We-S32 Structured SC - proximityRoom 2Chair: Milan Radovic, Switzerland
14:20 - 14:50	Keynote: Quenching of magnetic excitations in YBa ₂ Cu ₃ O ₇ /La _{2/3} Sr _{1/3} MnO ₃ superlattices revealed by resonant inelastic x-ray scattering Thorsten Schmitt, Switzerland
14:50 - 15:15	Invited Talk 1: Modification of the magnetic exchange interaction between interfacial Cu and Mn moments in YBa ₂ Cu ₃ O ₇ /La _{2/3} Ca _{1/3} MnO ₃ (YBCO/LCMO) multilayers <i>Kaushik Sen, Switzerland</i>
15:15 - 15:30	Contributed Talk 1: High T _c superconductivity and antiferromagnetism in Hg-based six-layered cuprates by Cu-NMR study Hidekazu Mukuda, Japan
15:30 - 15:45	Contributed Talk 2: Electric Field Effect Studies in High-T_c Cuprates and Related Materials Davor Pavuna, Switzerland
14:20 - 15:45	We-S33 New Superconductor materialsRoom 3Chair: Rustem Khasanov, Switzerland
14:20 - 14:50	Keynote: New Materials: Hunds metals in the 112 structure Gabriel Kotliar, USA
14:50 - 15:15	Invited Talk 1: Topological RPdBi half-Heusler semimetals: a new family of non-centrosymmetric magnetic superconductors Johnpierre Paglione, USA
15:15 - 15:30	Contributed Talk 1: Observation of nodal superconductivity and superconducting dome in new layered superconductor Ta ₄ Pd ₃ Te ₁₆ Shiyan Li, China
15:30 - 15:45	Contributed Talk 2: Superconductivity and Magnetism in TICo_{2-x}Ni_xSe₂ System Minghu Fang, China
14:20 - 15:45	We-S34 Time resolved spectroscopyRoom 4Chair: Urs Staub, Switzerland
14:20 - 14:50	Keynote: Non-equilibrium dynamics in superconductors and transition metal di-chalcogenides Thomas Devereaux, USA
14:50 - 15:15	Invited Talk 1: Terahertz Modulation of Spin-Density-Wave Gap Opening Induced by Coherent Lattice Motion in BaFe ₂ As ₂ Alfred Leitenstorfer, Germany
15:15 - 15:30	Contributed Talk 1: Photo-Enhanced Antinodal Conductivity in the Pseudogap Phase of High-Tc cuprates. Federico Cilento, Italy

15:30 - 15:45	Contributed Talk 2: Theoretical study of THz laser-induced Higgs-mode resonance in superconductors Naoto Tsuji, Japan	
14:20 - 15:45	We-S35 Cuprates mechanisms Chair: Peter Prevlovsek, Slovenia	Room 5
14:20 - 14:50	Keynote: Theory of high-T _c superconductivity: Beyond renormalized mean field theory and comparison to experi Jozef Spalek, Poland	ment
14:50 - 15:15	Invited Talk 1: High-temperature superconductivity induced by a hidden fermionic excitation Shiro Sakai, Japan	
15:15 - 15:30	Contributed Talk 1: Thermodynamic phase diagram under high magnetic fields in underdoped YBa ₂ Cu ₃ O _y single c Thierry Klein, France	rystals
15:30 - 15:45	Contributed Talk 2: Kinematical spin-fluctuation pairing in cuprates Nikolay Plakida, Russia	
15:45-16:10	Coffee Break	Level 0
16:10 - 17:45	We-S36 Cuprates pseudogap I Chair: Fuchun C. Zhang, China I	Room 1
16:10 - 16:40	Keynote: Charge order, superconductivity and pseudogap physics in the cuprates Johan Chang, Switzerland	
16:40 - 17:05	Invited Talk 1: Thoughts on the Pseudogap Michael Norman, USA	
17:05 - 17:30	Invited Talk 2: Giant Phonon Anomaly and other Anomalous Properties of the Pseudogap Phase in Underdoped Cuprates T. Maurice Rice, Switzerland	
17:30 - 17:45	Contributed Talk 1: Evidence for Pre-Formed Cooper Pairs in the Pseudogap Phase of Slightly Underdoped NdBa ₂ Edoardo Baldini, Switzerland	Cu ₃ 0 _{6+x}
16:10 - 17:45	We-S37 Ruthenates I Chair: Sungkit Yip, Taiwan	Room 2
16:10 - 16:40	Keynote: Strain tuning of Sr₂RuO₄ and other materials Andrew Mackenzie, Germany	
16:40 - 17:05	Invited Talk 1: Vortex Lattice Anisotropy and Pairing Symmetry of Sr ₂ RuO ₄ Morten Ring Eskildsen, USA	
17:05 - 17:30	Invited Talk 2: Anisotropy of nodal quasiparticle transport in the superconducting state of Sr ₂ RuO ₄ : Evidence of a horizontal line node <i>Elena Hassinger, Germany</i>	3
17:30 - 17:45	Contributed Talk 1: Is Sr₂RuO₄ a chiral p-wave superconductor? Insights from edge currents and uniaxial strain Thomas Scaffidi, United Kingdom	

16:10 - 17:45	We-S38 New SC materialsRoom 3Chair: Yakov Kopelevich, Brazil
16:10 - 16:40	Keynote: Superconductivity in the vicinity of double helical magnetic order in CrAs and related materials Jianlin Luo, China
16:40 - 17:05	Invited Talk 1: Nodal superconductivity in quasi-one-dimensional K ₂ Cr ₃ As ₃ Huiqiu Yuan, China
17:05 - 17:30	Invited Talk 2: Novel electronic state in the electron-doped high-T _c T'-superconductors observed by transport properties and muon spin relaxation Tadashi Adachi, Japan
17:30 - 17:45	Contributed Talk 1: Superconductivity in the Ternary HfV ₂ Ga ₄ compound <i>Antonio Machado, Brazil</i>
16:10 - 17:45	We-S39 Vortex matterRoom 4Chair: Vadim Geshkenbein, Switzerland
16:10 - 16:40	Keynote: Phase diagram of vortex matter and anisotropy in multiband superconductors Ruslan Prozorov, USA
16:40 - 17:05	Invited Talk 1: Vortex pinning in iron based superconductors Chiara Tarantini, USA
17:05 - 17:30	Invited Talk 2: High-resolution imaging of magnetic flux distributions in superconductors using polarized-rays Joachim Albrecht, Germany
17:30 - 17:45	Contributed Talk 1: TBA
16:10 - 17:45	We-S40 Cuprates charges orderRoom 5Chair: Vitaly Gasparov, Russia
16:10 - 16:40	Keynote: Charge order in cuprates: from hole to electron doping Andrea Damascelli, Canada
16:40 - 17:05	Invited Talk 1: Impact of charge order on the electronic properties of underdoped cuprates Cyril Proust, France
17:05 - 17:30	Invited Talk 2: Optical evidence of broken C4 symmetry across optimal doping in $BaFe_2(As_{1-x}P_x)_2$ Joseph Orenstein, USA
17:30 - 17:45	Contributed Talk 1: New insight into the cuprate phase diagram from neutron and X-ray scattering studies of HgBa ₂ CuO _{4+δ} Martin Greven, USA
17:45 - 18:00	Short Break Level 0
18:00 - 20:00	Memorial SymposiumRoom 1Chair: Christoph Renner, SwitzerlandJean-Marc Triscone: Øystein FischerHidenori Takagi: Koichi KitazawaKazuo Kadowaki: Hiroshi Maeda

Thursday, 27 August 2015

I			
	08:30-09:15	Plenary 8: Visualizing Signatures of Majorana Fermions in a Topological Superconductor Ali Yazdani, USA Chair: Jörgen Fink, Germany	Room 1
	09:15 - 10:00	Plenary 9: A cold grip on superfluidity and topology with atoms Tilman Esslinger, Switzerland Chair: Jörgen Fink, Germany	Room 1
	10:00 - 10:30	Coffee Break	Level 0
	10:30-12:15	Th-S41 Cuprates charge order <i>Chair: Marco Saluzzo, Italy</i>	Room 1
	10:30 - 11:00	Keynote: Fluctuating Charge-density Waves in a Cuprate Superconductor Nuh Gedik, USA	
	11:00 - 11:25	Invited Talk 1: NMR studies of charge order in YBa₂Cu₃O _y Marc-Henri Julien, France	
	11:25 - 11:50	Invited Talk 2: Charge ordering in electron-doped cuprates Eduardo H. da Silva Neto, Canada	
	11:50 - 12:15	Invited Talk 3: Spontaneous Loop Currents and Incommensurate Charge Order in Three-Band Models of Cuprate Superconductors Sinan Bulut, Germany	
	10:30 - 12:20	Th-S42 Iron-based SC spectroscopy Chair: Guoquing Zheng, China	Room 2
	10:30 - 11:00	Keynote: A view from inside iron-based oxypnictides Pietro Carretta, Italy	
	11:00 - 11:25	Invited Talk 1: Strong and local pairing in iron-based superconductors as seen by photoelectrons Hong Ding, China	
	11:25 - 11:50	Invited Talk 2: Identifying the superconductivity mechanism and pairing gap in iron based superconductors by scanning tunneling spectroscopy <i>Hai-Hu Wen, China</i>	
	11:50 - 12:05	Contributed Talk 1: Superconducting FeSe iron selenide: multi-techniques studies of new high quality crystals <i>Pierre Toulemonde, France</i>	
	12:05 - 12:20	Contributed Talk 2: Structural instability, nearly-critical spin fluctuations, and superconductivity in KFe ₂ As ₂ reve high-pressure NMR Weiqiang Yu, China	aled by
	10:30-12:20	Th-S43 Artificially structured SC - LAO/STO Chair: Thomas Lemberger, USA	Room 3
	10:30 - 11:00	Keynote: The Astounding Physics of LaAlO ₃ –SrTiO ₃ Interfaces Jochen Mannhart, Germany	
	11:00 - 11:25	Invited Talk 1: Superconductivity and magnetism in SrTiO ₃ /LaAlO ₃ probed by transport through nanowires Yoram Dagan, Israel	

11:25 - 11:50	Invited Talk 2: Electron Pairing Without Superconductivity Jeremy Levy, USA
11:50 - 12:05	Contributed Talk 1: Superconductivity and quantum phase transitions at oxide interfaces Jerome Lesueur, France
12:05 - 12:20	Contributed Talk 2: Magnetotransport Studies of Gated LaAlO ₃ / SrTiO ₃ Interfaces <i>Wei Liu, Switzerland</i>
10:30 - 12:20	Th-S44 Disordered SCsRoom 4Chair: Hennik M. Ronnow, Switzerland
10:30 - 11:00	Keynote: Optical spectroscopy of disordered superconductors Lara Benfatto, Italy
11:00 - 11:25	Invited Talk 1: Superconductor-Insulator Transitions and Related Problems Mikhail Feigel'man, Russia
11:25 - 11:50	Invited Talk 2: Tunneling spectroscopy of localized preformed Coopers pairs in highly disordered superconducting Indium oxide films Claude Chapelier, France
11:50 - 12:05	Contributed Talk 1: Mott Transition in Granular Aluminum films Nimrod Bachar, Switzerland
12:05 - 12:15	Contributed Talk 2: The Higgs Mode in Disordered Superconductors Close to a Quantum Phase Transition Uwe Santiago Pracht, Germany
10:30-12:20	Th-S45 Topological SCsRoom 5Chair: Takami Tohyama, Japan
10:30 - 11:00	Keynote: Theoretical design of topological superconductors in artificial structures Naoto Nagaosa, Japan
11:00 - 11:25	Invited Talk 1: Classification of topological surface states in nodal superconductors Andreas Schnyder, Germany
11:25 - 11:45	Contributed Talk 1: Topological superconductivity and unconventional pairing in oxide interfaces <i>Mathias Scheurer, Germany</i>
11:45 - 12:00	Contributed Talk 2: Geometry, band structure, and pairing range dependence of topological defects in a chiral p-wave superconductor Adrien Bouhon, Sweden
12:00 - 12:15	Contributed Talk 3: Chern structure in Sr₂RuO₄ thin films <i>Hiroyoshi Nobukane, Japan</i>

Thursday

12:20-15:00	Poster Session 4 & Lunch Leve Posters K – S, Even numbers Topics: - Superconducting devices - Iron pnictide superconductors - Other superconductors - Bulk applications - Superconductivity in artificially structured systems - Topological superconductors - Transport and thermodynamic properties - Vortex matter - Superconductivity in ruthenates and related materials	rel 0 & Level -1
15:00 - 17:05	Th-S46 Cuprates Spectroscopy Chair: Mark Golden, The Netherlands	Room 1
15:00 - 15:30	Keynote: A quantum bound on classical superconducting fluctuations in La_{2-x}Sr_xCuO₄ and YBa₂Cu₃O₇ N. Peter Armitage, USA	
15:30 - 15:55	Invited Talk 1: New light on the subgap states seen by STM in YBCO Christoph Renner, Switzerland	
15:55 - 16:20	Invited Talk 2: Fractional flux quantization in loops of unconventional superconductors Thilo Kopp, Germany	
16:20 - 16:35	Contributed Talk 1: Electron self-energies and their role in setting the T_c in cuprates Daniel Dessau, USA	
16:35 - 16:50	Contributed Talk 2: Hunting down pairing bosons in cuprate high temperature superconductors Vladimir Krasnov, Sweden	
16:50 - 17:05	Contributed Talk 3: Camelback-shaped band reconciles heavy electron behavior with weak electronic Cou correlations in superconducting TINi ₂ Se ₂ Christian Matt, Switzerland	lomb
15:00 - 17:00	Th-S47 Iron based mechanism Chair: Adolfo Avella, Italy	Room 2
15:00 - 15:30	Keynote: Anisotropy of magnetic correlations in FeAs based superconductors Markus Braden, Germany	
15:30 - 15:55	Invited Talk 1: Correlations and magnetism in iron superconductors: Hund's coupling and orbital different Elena Bascones, Spain	iation
15:55 - 16:20	Invited Talk 2: Fermi surface deformation in a simple iron-based superconductor, FeSe Amalia Coldea, United Kingdom	
16:20 - 16:45	Invited Talk 3: Spin-state crossover model for the magnetism and superconductivity of iron pnictides Jiri Chaloupka, Czech Republic	
16:45 - 17:00	Contributed Talk 2: Evidence for spin-fluctuation induced pairing in Ba_{0.6}K_{0.4}Fe₂As₂ <i>Rudi Hackl, Germany</i>	

Thursday

46

15:00 - 17:05	Th-S48 ApplicationsRoom 3Chair: Christoph Rossell, Switzerland	
15:00 - 15:30	Keynote: Grain boundaries in HTS materials – still a challenge to understand and to control David Larbalestier, USA	
15:30 - 15:55	Invited Talk 1: Using High Magnetic Fields to Study Cuprate Superconductivity and – conversely – Using Cuprate Superconductors to Generate High Magnetic Fields Greg Boebinger, USA	
15:55 - 16:20	Invited Talk 2: Whither Superconductivity for Electric Power? Paul Grant, USA	
16:20 - 16:35	Contributed Talk 1: Development of high current cables and high field magnets at CRPP-SC Davide Uglietti, Switzerland	
16:35 - 16:50	Contributed Talk 2: REBCO coated conductors for high field magnets: electro-mechanical properties and turn end requirements Christian Barth, Switzerland	
16:50 - 17:05	Contributed Talk 3: Evaluation of 6 kVA 3-Phase Current Limiting Transformer Operating by Flux Transfer Ali Gencer, Turkey	
15:00 - 17:00	Th-S49 BEC/BCS CrossoverRoom 4Chair: Christophe Berthod, SwitzerlandRoom 4	
15:00 - 15:30	Keynote: High-temperature superconductivity below one Micro-Kelvin Wilhelm Zwerger, Germany	
15:30 - 15:55	Invited Talk 1: Optical Study of Unusual Insulator-Superconductor Transition Setsuko Tajima, Japan	
15:55 - 16:20	Invited Talk 2: On the spectral features of the in-gap states in cuprate high temperature superconductors Julius Ranninger, France	
16:20 - 16:40	Contributed Talk 1: Finite temperature effective field theory for a two-band Fermi gas in the BCS-BEC crossover Serghei Klimin, Belgium	
16:40 - 17:00	Contributed Talk 2: Evidence for precursor superconducting pairing above Tc in underdoped cuprates from an analysis of the in-plane infrared response Dominik Munzar, Czech Republic	
15:00 - 17:05	Th-S50 High T mechanismsRoom 5Chair: Alexander Shengelaya, Georgia	
15:00 - 15:30	Keynote: Weakly doped cuprates: Fractionalized Fermi liquids? Matthias Vojta, Germany	
15:30 - 15:55	Invited Talk 1: Enhancement of superconductivity near a nematic quantum critical point Steven Kivelson, USA	
15:55 - 16:20	Invited Talk 2: Glide Plane Symmetry and η-Pairing for a Fe-pnictide layer Thomas Maier, USA	
16:20 - 16:35	Contributed Talk 1: The SU(2) symmetry in cuprate superconductors Catherine Pepin, France	

47

16:35 - 16:50	Contributed Talk 2: Unique Coulomb enhancement of superconducting correlations in the frustrated quarter-filled band Sumit Mazumdar, USA	
16:50 - 17:05	Contributed Talk 3: Signature of high temperature superconductivity in electron doped Sr ₂ IrO ₄ <i>Yajun Yan, China</i>	
17:05 - 19:30	Short Break and Move to Conference Dinner	
19:30 - 23:00	Conference DinnerBâtiment des Forces Motrices (BFAfter Dinner Talk: Laura H. Greene, USAFor directions to the Conference Dinner see section 11.5 of the programme.	M)



Friday, 28 August 2015

08:30-10:20	Fr-S51 Cuprates dynamicsRoomChair: Fulvio Parmigiani, Italy
08:30 - 09:00	Keynote: Revised phase diagram of the cuprates Neven Barišić, Austria
09:00 - 09:25	Invited Talk 1: ARPES studies of low energy excitations in cuprate superconductors Inna Vishik, USA
09:25 - 09:50	Invited Talk 2: Three-Dimensional Charge Density Wave Order in YBa ₂ Cu ₃ O _{6.67} at High Magnetic Fields Simon Gerber, USA
09:50 - 10:05	Contributed Talk 1: Excitation of Josephson plasmon in stripe ordered La _{2-x} Ba _x CuO ₄ compounds: A possibility to study intertwined order parameters Srivats Rajasekaran, Germany
10:05 - 10:20	Contributed Talk 2: First principles quantum Monte Carlo simulations of inhomogeneity in doped cuprates Lucas Wagner, USA
08:30 - 10:20	Fr-S52 Hydrogen sulfide SCRoomChair: Bertram Batlogg, Switzerland
08:30 - 09:00	Keynote: Conventional superconductivity at 203 K at high pressures in the sulfur hydride system <i>Mikhail Eremets, Germany</i>
09:00 - 09:25	Invited Talk 1: Cubic H ₃ S around 200 GPa: an atomic hydrogen superconductor stabilized by sulfur Warren Pickett, USA
09:25 - 09:50	Invited Talk 2: Superconductivity and structural studies of highly compressed hydrogen sulfide Katsuya Shimizu, Japan
09:50 - 10:05	Contributed Talk 1: Fully non-empirical study on superconductivity in compressed sulfur hydrides Ryosuke Akashi, Japan
10:05 - 10:20	Contributed Talk 2: High T_c in hydrogen sulfide under pressure as a property of the electron-phonon system <i>Evgeny Mazur, Russia</i>
08:30 - 10:20	Fr-S53 Artificially structured SC - LAO/STORoomChair: Christian Bernhard, SwitzerlandRoom
08:30 - 09:00	Keynote: Superconductivity in gate-tunable high density two-dimensional electron systems Yoshihiro Iwasa, Japan
09:00 - 09:25	Invited Talk 1: Scanning SQUID Imaging of SrTiO ₃ Heterostructures Kathryn Moler, USA
09:25 - 09:50	Invited Talk 2: Electron-Phonon mechanism for superconductivity at a LaAlO ₃ -SrTiO ₃ interface Jozef T. Devreese, Belgium
09:50 - 10:05	Contributed Talk 1: Superconducting Coupling Properties of Bi-Interface LaAlO₃/SrTiO₃ Heterostructures Danfeng Li, Switzerland
10:05 - 10:20	Contributed Talk 2: Electron-phonon Coupling and the Superconducting Phase Diagram of the LaAlO ₃ -SrTiO ₃ Interface Hans Boschker, Germany

08:30 - 10:20	Fr-S54 AdS/CFT & SC Chair: Philipp Phillips, USA	Room 4
08:30 - 09:00	Keynote: Holographic duality and the theory of superconductivity Jan Zaanen, Netherlands	
09:00 - 09:25	Invited Talk 1: Incoherent Strange Metals and Superconductivity Sean Hartnoll, USA	
09:25 - 09:50	Invited Talk 2: From BCS to brand new forms of superconductivity with holography Koenraad Schalm, Netherlands	
09:50 - 10:05	Contributed Talk 1: Top-down approaches to holographic superconductors Johanna Erdmenger, Germany	
10:05 - 10:20	Contributed Talk 2: Scaling laws for thermo-electric transport at quantum criticality Andreas Karch, USA	
08:30 - 10:20	Fr-S55 Organic materials and high T_c superconductivity Chair: Siddharth Saxena, United Kingdom	Room 5
08:30 - 09:00	Keynote: A unified perspective on cuprates and layered organic superconductors André-Marie Tremblay, Canada	
09:00 - 09:25	Invited Talk 1: Charge Order and Superconductivity in Low-Dimensional Organic Conductors Martin Dressel, Germany	
09:25 - 09:50	Invited Talk 2: Emerging Evidence for FFLO States in Layered Organic Superconductors Jochen Wosnitza, Germany	
09:50 - 10:05	Contributed Talk 1: NMR Studies on the Superconducting State of an Organic Doped Mott Insulator with a Isotro Triangular Lattice, k-(BEDT-TTF) ₄ Hg _{2.89} Br ₈ <i>Kazuya Miyagawa, Japan</i>	pic
10:05 - 10:20	Contributed Talk 2: Possible triplet superconductivity and its main features in the quasi-one-dimensional condu Li _{0.9} Mo ₆ O ₁₇ . Andrei Lebed, USA	uctor
10:20-10:50	Coffee Break	Level 0
10:50 - 11:35	Plenary 10: Light-induced superconducting-like phases at high temperatures Andrea Cavalleri, Italy Chair: Hidetoshi Fukuyama, Japan	Room 1
11:35 - 12:20	Plenary 11: Selected Views And Prospects In Materials And Mechanisms Of Superconductivity <i>George A. Sawatzky, Canada</i> <i>Chair: Hidetoshi Fukuyama, Japan</i>	Room 1
12:20 - 12:40	Closing Ceremony Dirk van der Marel, Switzerland & Manfred Sigrist, Switzerland Introduction of the next congress	Room 1

10.1 Poster Sessions

A : Cold atoms				
Tuesday	A002	Manuel de Llano	Generalized BEC in superconductors and ultracold atomic gases	
Tuesday	A004	Tomasz Zaleski	Structure factor of ultra-cold bosons in two-dimensional optical lattices	
B : Cuprate S	upercondu	ıctors		
Monday	B001	Tao Li	On the itinerant-local dualism in high Tc cuprates: an RVB perspective	
Monday	B003	Sven Badoux	Effect of pressure on Fermi-surface reconstruction in the cuprate superconductor Nd-LSCO	
Tuesday	B004	Hana Jirků	Theoretical study of the a-axis conductivity of hole-doped two-leg ladder copper oxide compounds	
Monday	B005	Ranjan Chaudhury	Pairing interaction in layered superconductors with weakly and strongly correlated carriers	
Tuesday	B006	Marek Woch	Thermal fluctuations of 2G tape	
Monday	B007	Nobukuni Hatayama	Theory of thermal expansion in antiferromagnetic superconductors with a d-wave superconducting gap	
Tuesday	B008	Xianlin Zeng	Microstructure analysis of electrospun superconducting $La_{_{1.85}}Sr_{_{0.15}}CuO_{_{4-\delta}}$ nanowires and nanoribbons	
Monday	B011	Sofia Favre	Comparative texture and transport studies of Y/PBCO polycrystalline ceramics sintered in Ar and 0_2 atmospheres	
Tuesday	B012	Anton Los	Increase of critical currents and peak effect in Mo substituted $Y_{_{123}}$ single crystals	
Monday	B013	Yoshiaki Hata	Electric and magnetic properties of $\text{FeSr}_2\text{LnCu}_2\text{O}_{6+y}$ (Ln = Gd and Er) superconductors	
Tuesday	B014	Dominik Munzar	Evidence for precursor superconducting pairing above Tc in underdoped cuprates from an analysis of the in-plane infrared response	
Monday	B015	Dorothée Colson	Crystal Growth of Mercury Cuprates	
Tuesday	B016	Andreas Kreisel	Interpretation of scanning tunneling quasiparticle interference and impurity states	
Monday	B017	Alexander Moskvin	Local intra-unit-cell order parameters in cuprates beyond Zhang-Rice model	
Tuesday	B018	Masahiko Hayashi	Effects of Fluctuations in the Phase Diagram of high-Tc Cuprate Superconductors	
Monday	B019	Guiming Pang	Evidence for nodal superconductivity in a layered compound $Ta_4Pd_3Te_{16}$	
Tuesday	B020	Bill Atkinson	Nematic Charge Order in the Three-Band Model of Cuprate Superconductors	
Monday	B021	Toshihiko Maeda	Effect of Ba/Sr ratio on stabilization of Y(Ba,Sr) ₂ (Cu,Mo) ₃ O ₂	
Tuesday	B022	Tatiana Charikova	Scaling behavior of the resistivity tensor in the mixed state of the electron-doped superconductors with a wide range of the doping level	
Monday	B023	Shiping Feng	Electronic structure of cuprate superconductors	
Tuesday	B024	Aurora Alberca	Element specific magnetic depth profiles in YBa ₂ Cu ₃ O ₇ /La _{2/3} Ca _{1/3} MnO ₃ superlattices	
Tuesday	B026	Kazuhiro Kuboki	Flux phase as possible surface states of high-Tc cuprate superconductors with broken time-reversal symmetry	
Monday	B027	Thorsten Jacobs	Intrinsic tunneling analysis of electrically doped Bi-2212 mesa structures	
Tuesday	B028	Evandro de Mello	Charge Order Influence on the Superconducting and Pseudogap Energy Scales of Cuprates	
Monday	B029	Samuel Lederer	Enhancement of superconductivity near a nematic quantum critical point	
Tuesday	B030	William Jo	Strong pinning effects in artificially fabricated conductors with $MBa_2Cu_3O_{7-x}$ (M = Gd or Y)	
Monday	B031	Ling Qin	Effect of the pseudogap on the infrared response in cuprate superconductors	
Tuesday	B032	Ling Qin	Effect of the pseudogap on the thermal transport in doped cuprates	
Monday	B033	Pengfei Jing	Electronic Raman response in cuprate superconductors	
Tuesday	B034	Lulin Kuang	Dynamical spin response in cuprate superconductors from low-energy to high-energy	
Monday	B035	Zafar Khudayberdiev	Carrier localization, Anderson transitions and stripe formation in hole-doped cuprates	
Tuesday	B036	Lulin Kuang	Electron spectrum of cuprate superconductors in the normal-state	
Monday	B037	Dominique Geffroy	Impact of the momentum space width of the central part of the hourglass dispersion on results of calculations based on the spin fermion model	

Monday	B039	Siham Benhabib	Electronic Raman study of the pseudo gap and its link to the Fermi surface topology
Tuesday	B040	Junichi Okamoto	Dynamical properties of photoexcited competing orders in YBCO: some insights from Langevin dynamics simulations
Monday	B041	Lev Mazov	The Cuprates: New Magnetotransport and Optical Evidences For In-Plane, Combined Phonon-Exciton Mechanism of HTSC
Tuesday	B042	Artur Malinowski	Magetoresistance, Hall effect and Kohler's rule in the normal-state of $\rm La_{1.85}Sr_{0.15}CuO_4$ doped with Ni
Monday	B043	Nicolas Doiron-Leyraud	Hole pocket in the Fermi surface of underdoped $YBa_2Cu_3O_y$
Tuesday	B044	Tohru Kurosawa	STM/STS studies on electronic charge order and antinodal pseudogap in Bi-2212
Monday	B045	Motoharu Kitatani	DMFT+FLEX approach for the two-dimensional repulsive Hubbard model
Tuesday	B046	Daichi Kato	Multi-Variable Variational Monte-Carlo Study of the Hubbard Ladder Model
Monday	B047	Jauyn Grace Lin	Magnetic Proximity Effects in Cuprate Superconductor
Tuesday	B048	Tadashi Machdia	Relationship between vortex-induced electronic states and underlying electronic modulations in $Bi_2Sr_2CaCu_2O_{8+\delta}$
Monday	B049	Jauyn Grace Lin	STM Characterization of nanogranular YBa ₂ Cu ₃ O ₇ thin film with ab orientation
Tuesday	B050	Tatsuya Honma	Topographic Origin of the Pseudogap in Hole-Doped High-Temperature Cuprate Superconductors
Monday	B055	Bastien Loret	Synthesis and Raman Study of Mercurate HgBa2Ca2Cu308
Tuesday	B056	Milan Radovic	Strong electronic reconstruction of cuprates by charge transfer effects in YBCO/LSMO heterostructures
Monday	B057	Daisuke Ogura	Two-particle self-consistent analysis of superconductivity in the first principles model of the high Tc cuprates
Monday	B059	Radoslaw Szczesniak	The high-temperature superconducting state in cuprates: the electron-phonon and electron-electron-phonon interaction
Tuesday	B060	Oskar Vafek	Superconductivity on the brink of spin-charge order in doped honeycomb bilayer
Monday	B061	Dionys Baeriswyl	Cooper problem for correlated electrons
Tuesday	B062	Pieralberto Marchetti	Superfluid density in underdoped cuprates : a gauge approach
Monday	B063	Alexander Kordyuk	Pseudogap from ARPES experiment: three gaps in cuprates and topological superconductivity
Tuesday	B066	Koshi Kurashima	Possible development of ferromagnetic fluctuations in the heavily overdoped Bi-2201 cuprates
Monday	B067	Alma Dorantes	Magnetic properties of high quality single crystals of the electron underdoped cuprate superconductor $Md_{2x}Ce_xCuO_4$
Tuesday	B068	Richard Hlubina	Effect of feedback on Amperean pairing
Monday	B069	Navinder Singh	Optical conductivity of cuprates from Yang–Rice–Zhang ansatz: Comparison with experiment
Tuesday	B070	Evgeny Mazur	Normal, pseudogap and superconducting properties of the electron-phonon highly correlated system of cuprate
Monday	B071	Lidia Rossi	Field effect doping and transport properties of YBCO for high field applications
Tuesday	B072	José Lorenzana	Soft electronic matter in underdoped cuprates
Monday	B073	Xianlin Zeng	Synthesis of parallel BSCCO-2212 nanowires by electrospinning method
Tuesday	B074	Vitalii Gasparov	Magnetic field, frequency and temperature dependence of complex conductance of $La_{1,65}Sr_{0.45}Cu0_4/La_2Cu0_4$ films and \kappa-(BEDT-TTF)_2Cu[N(CN)_2]Br superconductors
Tuesday	B076	Vitalii Gasparov	Dynamic BKT transition in ultrathin YBCO and LSCO films
Monday	B079	Marco Arzeo	Decoherence in high critical temperature superconducting microwave quantum circuits
Tuesday	B080	Lorenzo Fratino	d-wave superconducting phase diagram of the two dimensional Hubbard model
Monday	B081	Li Yu	Laser-based ARPES study on underdoped and optimally doped YBCO
Tuesday	B082	Samir Khene	$Y_3Fe_5O_{12}$ nanoparticles as efficient pinning centers in YBa ₂ Cu ₃ O ₇₋₆ matrix
Monday	B083	Enno Joon	High T _c superconductors - two dimensional superlattices
Monday	B087	Akash Maharaj	A mean-field phase diagram with a pair density wave state in relation to cuprate phenomenology

Tuesday	B088	Deheng Gao	The evolution of Fermi surface in cuprate superconductors
Tuesday	B090	Francesco Peronaci	Transient Dynamics of d-wave Superconductors after a Sudden Excitation
Tuesday	B092	Adolfo Avella	Composite Operator Method Analysis of the Underdoped Cuprates Puzzle
Monday	B093	Maxim Yu. Kagan	The Kohn-Luttinger Effect and Anomalous Pairing in Novel Superconducting Systems and Idealized Graphene
Tuesday	B094	Yu He	Evidence for bosonic coupling in extremely overdoped "pure" d-wave superconductor Bi-2212
Monday	B095	Yingying Peng	Magnetic excitations and phonons simultaneously studied by resonant inelastic x-ray scattering in optimally doped Bi _{1.5} Pb _{0.55} Sr _{1.6} La _{0.4} CuO _{6+d}
Tuesday	B096	Yehua Liu	Giant Phonon Anomaly associated with Superconducting Fluctuations in the Pseudogap Phase of Cuprates
Tuesday	B098	Shengwei Zeng	Electric Field Effect-Induced Two-Dimensional Superconductivity in an Electron-Doped Cuprate
Monday	B099	Hyun-Tak Kim	Fermi arc Analyzed from Fitting of the Diverging Effective Mass Extracted from Quantum Oscillation in YaBa_2Cu_3O_{_{6+x}}
Tuesday	B100	Thomas Kloss	${\rm SU}_{\rm 2}$ symmetry in a realistic spin-fermion model for cuprate superconductors
Monday	B101	Xavier Montiel	Raman scattering and $\mathrm{SU}_{_2}$ collective resonance in cuprate superconductors
Tuesday	B102	Thomas Lemberger	Determination of the G-L coherence length in 2-d superconducting cuprate films at applied fields of tens of gauss
Monday	B103	Peter Prelovsek	Charge recombination in photo-excited undoped cuprates
Tuesday	B104	Brahim Lmouden	Pinning Force and critical properties in $YBa_2Cu_3O_{7-\delta}$
Tuesday	B105	Juergen Roehler	The collapse of the columnar spatial topology of pseudogap excitations in the underdoped-overdoped transition of cuprate superconductors
Tuesday	B106	Dirk van der Marel	Fermi liquid-like phenomenology of the pseudogap phase in the high-Tc cuprates
Monday	B107	Julien Levallois	Temperature-dependent ellipsometry measurements of Coulomb energy in
			Superconducting Materials
Tuesday	B108	Abid Boudiar	Superconducting Materials Exact phase diagram of High-T _c Superconductors: 1- Hole-doped cuprates
Tuesday C:Spectrosco	B108 opies	Abid Boudiar	Superconducting Materials Exact phase diagram of High-T _c Superconductors: 1- Hole-doped cuprates
Tuesday C:Spectrosco Monday	B108 opies C001	Abid Boudiar Xianggang Qiu	Superconducting Materials Exact phase diagram of High-T _c Superconductors: 1- Hole-doped cuprates Formation of As-As bond and its effect on absence of superconductivity in the collapsed tetragonal phase of Ca _{0.86} Pr _{0.14} Fe ₂ As ₂
Tuesday C:Spectrosco Monday Tuesday	B108 opies C001 C002	Abid Boudiar Xianggang Qiu Shadi Balandeh	Superconducting Materials Exact phase diagram of High-T _c Superconductors: 1- Hole-doped cuprates Formation of As-As bond and its effect on absence of superconductivity in the collapsed tetragonal phase of Ca _{0.86} Pr _{0.14} Fe ₂ As ₂ Electronic and Structural Investigation on the Bismuthate Perovskites with Synchrotron Xray Measurements and DFT Calculation formation on the superconductivity mechanism of this system and the effect of their structure on their electronic properties
Tuesday C:Spectrosco Monday Tuesday Monday	B108 opies C001 C002 C003	Abid Boudiar Xianggang Qiu Shadi Balandeh Daiki Ootsuki	Superconducting Materials Exact phase diagram of High-T _c Superconductors: 1- Hole-doped cuprates Formation of As-As bond and its effect on absence of superconductivity in the collapsed tetragonal phase of Ca _{0.86} Pr _{0.14} Fe ₂ As ₂ Electronic and Structural Investigation on the Bismuthate Perovskites with Synchrotron Xray Measurements and DFT Calculation formation on the superconductivity mechanism of this system and the effect of their structure on their electronic properties Electronic Structure on IrTe ₂ revealed by angle-resolved photoemission spectroscopy
Tuesday C:Spectrosco Monday Tuesday Monday Tuesday	B108 opies C001 C002 C003 C004	Abid Boudiar Abid Boudiar Xianggang Qiu Shadi Balandeh Daiki Ootsuki Li Yu	Superconducting Materials Exact phase diagram of High-T _c Superconductors: 1- Hole-doped cuprates Formation of As-As bond and its effect on absence of superconductivity in the collapsed tetragonal phase of Ca _{0.86} Pr _{0.14} Fe ₂ As ₂ Electronic and Structural Investigation on the Bismuthate Perovskites with Synchrotron Xray Measurements and DFT Calculation formation on the superconductivity mechanism of this system and the effect of their structure on their electronic properties Electronic Structure on IrTe ₂ revealed by angle-resolved photoemission spectroscopy Anomalous High-Energy Waterfall Electronic Structure in 5d Transition Metal Oxide Sr ₂ IrO ₄ with a Strong Spin-Orbit Coupling
Tuesday C:Spectrosco Monday Tuesday Monday Tuesday Monday Monday	B108 opies C001 C002 C003 C004 C005	Abid Boudiar Abid Boudiar Xianggang Qiu Shadi Balandeh Daiki Ootsuki Li Yu Marc Scheffler	Superconducting Materials Exact phase diagram of High-T _c Superconductors: 1- Hole-doped cuprates Formation of As-As bond and its effect on absence of superconductivity in the collapsed tetragonal phase of Ca _{0.86} Pr _{0.14} Fe ₂ As ₂ Electronic and Structural Investigation on the Bismuthate Perovskites with Synchrotron Xray Measurements and DFT Calculation formation on the superconductivity mechanism of this system and the effect of their structure on their electronic properties Electronic Structure on IrTe ₂ revealed by angle-resolved photoemission spectroscopy Anomalous High-Energy Waterfall Electronic Structure in 5d Transition Metal Oxide Sr ₂ IrO ₄ with a Strong Spin-Orbit Coupling Broadband microwave response of superconducting NbN and TaN thin films
Tuesday C:Spectrosco Monday Tuesday Monday Monday Tuesday Monday Tuesday	B108 opies C001 C002 C003 C004 C005 C006	Abid Boudiar Abid Boudiar Xianggang Qiu Xianggang Qiu Shadi Balandeh Daiki Ootsuki Li Yu Marc Scheffler Vasily Stolyarov	Superconducting Materials Exact phase diagram of High-T _c Superconductors: 1- Hole-doped cuprates Formation of As-As bond and its effect on absence of superconductivity in the collapsed tetragonal phase of Ca _{0.86} Pr _{0.14} Fe ₂ As ₂ Electronic and Structural Investigation on the Bismuthate Perovskites with Synchrotron Xray Measurements and DFT Calculation formation on the superconductivity mechanism of this system and the effect of their structure on their electronic properties Electronic Structure on IrTe ₂ revealed by angle-resolved photoemission spectroscopy Anomalous High-Energy Waterfall Electronic Structure in 5d Transition Metal Oxide Sr ₂ IrO ₄ with a Strong Spin-Orbit Coupling Broadband microwave response of superconducting NbN and TaN thin films Vortices at the surface of a normal metal coupled by proximity effect to a superconductor
Tuesday C:Spectrosco Monday Tuesday Monday Tuesday Monday Tuesday Monday Tuesday	B108 opies C001 C002 C003 C004 C005 C006 C007	Abid Boudiar Abid Boudiar Xianggang Qiu Xianggang Qiu Shadi Balandeh Daiki Ootsuki Li Yu Marc Scheffler Vasily Stolyarov Wan Kyu Park	Superconducting Materials Exact phase diagram of High-T _c Superconductors: 1- Hole-doped cuprates Formation of As-As bond and its effect on absence of superconductivity in the collapsed tetragonal phase of Ca _{0.86} Pr _{0.14} Fe ₂ As ₂ Electronic and Structural Investigation on the Bismuthate Perovskites with Synchrotron Xray Measurements and DFT Calculation formation on the superconductivity mechanism of this system and the effect of their structure on their electronic properties Electronic Structure on IrTe ₂ revealed by angle-resolved photoemission spectroscopy Anomalous High-Energy Waterfall Electronic Structure in 5d Transition Metal Oxide Sr ₂ IrO ₄ with a Strong Spin-Orbit Coupling Broadband microwave response of superconducting NbN and TaN thin films Vortices at the surface of a normal metal coupled by proximity effect to a superconductor Hybridization process and formation of coherent heavy fermions via quasiparticle scattering spectroscopy (QPS)*
Tuesday Tuesday C:Spectrosco Monday Tuesday Monday Iuesday Monday Iuesday Monday Tuesday Monday Iuesday Iuesday Iuesday Iuesday Iuesday Iuesday Iuesday Iuesday Iuesday	B108 opies C001 C002 C003 C004 C005 C006 C007 C008	Abid Boudiar Abid Boudiar Xianggang Qiu Xianggang Qiu Shadi Balandeh Daiki Ootsuki Li Yu Marc Scheffler Vasily Stolyarov Wan Kyu Park Jin Nakamura	Superconducting Materials Exact phase diagram of High-T _c Superconductors: 1- Hole-doped cuprates Formation of As-As bond and its effect on absence of superconductivity in the collapsed tetragonal phase of Ca _{0.86} Pr _{0.14} Fe ₂ As ₂ Electronic and Structural Investigation on the Bismuthate Perovskites with Synchrotron Xray Measurements and DFT Calculation formation on the superconductivity mechanism of this system and the effect of their structure on their electronic properties Electronic Structure on IrTe ₂ revealed by angle-resolved photoemission spectroscopy Anomalous High-Energy Waterfall Electronic Structure in 5d Transition Metal Oxide Sr ₂ IrO ₄ with a Strong Spin-Orbit Coupling Broadband microwave response of superconducting NbN and TaN thin films Vortices at the surface of a normal metal coupled by proximity effect to a superconductor Hybridization process and formation of coherent heavy fermions via quasiparticle scattering spectroscopy (QPS)* Electronic Structures of Ca-3d and C-2p of CaC ₆
Tuesday Tuesday C:Spectrosco Monday Tuesday Monday Monday Monday Monday Tuesday Monday Tuesday Monday Tuesday Monday Tuesday	B108 opies C001 C002 C003 C004 C005 C006 C007 C008 C010	Abid Boudiar Abid Boudiar Abid Boudiar Xianggang Qiu Xianggang Qiu Shadi Balandeh Daiki Ootsuki Li Yu Marc Scheffler Vasily Stolyarov Wan Kyu Park Jin Nakamura Hung-Duen Yang	Superconducting Materials Exact phase diagram of High-T _c Superconductors: 1- Hole-doped cuprates Formation of As-As bond and its effect on absence of superconductivity in the collapsed tetragonal phase of Ca _{0.86} Pr _{0.14} Fe ₂ As ₂ Electronic and Structural Investigation on the Bismuthate Perovskites with Synchrotron Xray Measurements and DFT Calculation formation on the superconductivity mechanism of this system and the effect of their structure on their electronic properties Electronic Structure on IrTe ₂ revealed by angle-resolved photoemission spectroscopy Anomalous High-Energy Waterfall Electronic Structure in 5d Transition Metal Oxide Sr ₂ IrO ₄ with a Strong Spin-Orbit Coupling Broadband microwave response of superconducting NbN and TaN thin films Vortices at the surface of a normal metal coupled by proximity effect to a superconductor Hybridization process and formation of coherent heavy fermions via quasiparticle scattering spectroscopy (QPS)* Electronic Structures of Ca-3d and C-2p of CaC ₆ The Co valence states in Na _x CoO ₂ ·yH ₂ O superconductors revealed from x-ray absorption spectroscopy
Tuesday Tuesday C:Spectrosco Monday Tuesday Monday Tuesday Monday Tuesday Monday Tuesday Monday Tuesday Monday Tuesday Monday	B108 Dpies C001 C002 C002 C003 C004 C005 C006 C007 C008 C008 C010 C011	Abid Boudiar Abid Boudiar Abid Boudiar Xianggang Qiu Xianggang Qiu Shadi Balandeh Daiki Ootsuki Li Yu Marc Scheffler Vasily Stolyarov Wan Kyu Park Jin Nakamura Hung-Duen Yang Keisuke Tomita	Superconducting Materials Exact phase diagram of High-T _c Superconductors: 1- Hole-doped cuprates Formation of As-As bond and its effect on absence of superconductivity in the collapsed tetragonal phase of Ca _{0.86} Pr _{0.14} Fe ₂ As ₂ Electronic and Structural Investigation on the Bismuthate Perovskites with Synchrotron Xray Measurements and DFT Calculation formation on the superconductivity mechanism of this system and the effect of their structure on their electronic properties Electronic Structure on IrTe ₂ revealed by angle-resolved photoemission spectroscopy Anomalous High-Energy Waterfall Electronic Structure in 5d Transition Metal Oxide Sr ₂ IrO ₄ with a Strong Spin-Orbit Coupling Broadband microwave response of superconducting NbN and TaN thin films Vortices at the surface of a normal metal coupled by proximity effect to a superconductor Hybridization process and formation of coherent heavy fermions via quasiparticle scattering spectroscopy (QPS)* Electronic Structures of Ca-3d and C-2p of CaC ₆ The Co valence states in Na _x CoO ₂ :yH ₂ O superconductors revealed from x-ray absorption spectroscopy Higgs mode in a multiband superconductor MgB ₂
Tuesday Tuesday C:Spectrosco Monday Tuesday Monday Monday Monday Tuesday Tuesday Tuesday Tuesday Monday	B108 opies C001 C002 C003 C004 C005 C006 C007 C008 C007 C008 C010 C011 C012	Abid Boudiar Abid Boudiar Abid Boudiar Xianggang Qiu Xianggang Qiu Shadi Balandeh Daiki Ootsuki Li Yu Marc Scheffler Vasily Stolyarov Wan Kyu Park Jin Nakamura Hung-Duen Yang Keisuke Tomita Jong Hyeon Kim	Superconducting Materials Exact phase diagram of High-T _c Superconductors: 1- Hole-doped cuprates Formation of As-As bond and its effect on absence of superconductivity in the collapsed tetragonal phase of Ca _{0.86} Pr _{0.14} Fe ₂ As ₂ Electronic and Structural Investigation on the Bismuthate Perovskites with Synchrotron Xray Measurements and DFT Calculation formation on the superconductivity mechanism of this system and the effect of their structure on their electronic properties Electronic Structure on IrTe ₂ revealed by angle-resolved photoemission spectroscopy Anomalous High-Energy Waterfall Electronic Structure in 5d Transition Metal Oxide Sr ₂ IrO ₄ with a Strong Spin-Orbit Coupling Broadband microwave response of superconducting NbN and TaN thin films Vortices at the surface of a normal metal coupled by proximity effect to a superconductor Hybridization process and formation of coherent heavy fermions via quasiparticle scattering spectroscopy (QPS)* Electronic Structures of Ca-3d and C-2p of CaC ₆ The Co valence states in Na _x COO ₂ ·yH ₂ O superconductors revealed from x-ray absorption spectroscopy Higgs mode in a multiband superconductor MgB ₂ Terahertz Spectroscopy of Superconducting NbN Thin Films
Tuesday Tuesday C:Spectrosco Monday Tuesday Monday Monday Monday Monday	B108 Dpies C001 C002 C003 C004 C005 C006 C007 C008 C008 C010 C011 C012 C013	Abid Boudiar Abid Boudiar Abid Boudiar Xianggang Qiu Xianggang Qiu Shadi Balandeh Daiki Ootsuki Daiki Ootsuki Li Yu Marc Scheffler Vasily Stolyarov Marc Scheffler Jin Nakamura Hung-Duen Yang Keisuke Tomita Jong Hyeon Kim Kyung Ik Sim	Superconducting Materials Exact phase diagram of High-T _c Superconductors: 1- Hole-doped cuprates Formation of As-As bond and its effect on absence of superconductivity in the collapsed tetragonal phase of Ca _{0.88} Pr _{0.14} Fe ₂ As ₂ Electronic and Structural Investigation on the Bismuthate Perovskites with Synchrotron Xray Measurements and DFT Calculation formation on the superconductivity mechanism of this system and the effect of their structure on their electronic properties Electronic Structure on IrTe ₂ revealed by angle-resolved photoemission spectroscopy Anomalous High-Energy Waterfall Electronic Structure in 5d Transition Metal Oxide Sr ₂ IrO ₄ with a Strong Spin-Orbit Coupling Broadband microwave response of superconducting NbN and TaN thin films Vortices at the surface of a normal metal coupled by proximity effect to a superconductor Hybridization process and formation of coherent heavy fermions via quasiparticle scattering spectroscopy (QPS)* Electronic Structures of Ca-3d and C-2p of CaC ₆ The Co valence states in Na _x CoO ₂ ·yH ₂ O superconductors revealed from x-ray absorption spectroscopy Higgs mode in a multiband superconductor MgB ₂ Terahertz Spectroscopy of Superconducting NbN Thin Films Terahertz Superconducting Metamaterials Based on NbN
Tuesday Tuesday C:Spectrosco Monday Tuesday Monday Monday Monday Tuesday Monday Tuesday	B108 opies C001 C002 C002 C003 C004 C005 C006 C007 C008 C007 C008 C010 C011 C012 C013 C014	Abid Boudiar Abid Boudiar Abid Boudiar Xianggang Qiu Shadi Balandeh Daiki Ootsuki Li Yu Marc Scheffler Vasily Stolyarov Wan Kyu Park Vasily Stolyarov Jin Nakamura Hung-Duen Yang Keisuke Tomita Jong Hyeon Kim Kyung Ik Sim Christophe Berthod	Superconducting Materials Exact phase diagram of High-T _c Superconductors: 1- Hole-doped cuprates Formation of As-As bond and its effect on absence of superconductivity in the collapsed tetragonal phase of Ca _{0.86} Pr _{0.14} Fe ₂ As ₂ Electronic and Structural Investigation on the Bismuthate Perovskites with Synchrotron Xray Measurements and DFT Calculation formation on the superconductivity mechanism of this system and the effect of their structure on their electronic properties Electronic Structure on IrTe ₂ revealed by angle-resolved photoemission spectroscopy Anomalous High-Energy Waterfall Electronic Structure in 5d Transition Metal Oxide Sr ₂ IrO ₄ with a Strong Spin-Orbit Coupling Broadband microwave response of superconducting NbN and TaN thin films Vortices at the surface of a normal metal coupled by proximity effect to a superconductor Hybridization process and formation of coherent heavy fermions via quasiparticle scattering spectroscopy (QPS)* Electronic Structures of Ca-3d and C-2p of CaC ₆ The Co valence states in Na _x CoO ₂ ·yH ₂ O superconductors revealed from x-ray absorption spectroscopy Higgs mode in a multiband superconductor MgB ₂ Terahertz Superconducting Metamaterials Based on NbN Effect of antiferromagnetic spin fluctuations on the vortex-core spectrum in a d-wave superconductor

Tuesday	C016	Tomaz Mertelj	Coexistence of ferromagnetism and superconductivity in iron based pnictides: a time resolved magnetooptical study	
Tuesday	C018	Zhiming Wang	A two-dimensional gas of large polarons at the $SrTiO_3$ (001) surface	
Tuesday	C020	Felix Brückner	Multigap superconductivity with broken time reversal symmetry in locally noncentrosymmetric SrPtAs	
D : Heavy Fe	rmion supe	erconductors		
Tuesday	D002	Shanta Saha	Neutron scattering and high pressure transport in a rare correlated ferromagnet Nd2PdSi3	
Tuesday	D004	Zhi Ren	Pressure-induced superconductivity and its unusual interplay with magnetism in CeAu ₂ Si ₂	
Monday	D005	Ludovic Howald	Evidence for Coexistence of Bulk Superconductivity and Itinerant Antiferromagnetism in the Heavy Fermion System CeCo($In_{1-x}Cd_x$) ₅	
Tuesday	D006	Frank Weber	Lattice dynamics in CePt ₃ Si	
Monday	D007	Takuya Nomoto	Magnetic/multipole fluctuations and superconducting gap symmetry in $CeColn_{s}$ and UPt_{s}	
Monday	D009	Daniel Mazzone	Distinct Interplay between Magnetism and Superconductivity in $Nd_xCe_{1-x}Coln_s$	
Tuesday	D012	Markus Thiemann	Measuring the T-dependence of the penetration depth of $CeCu_2Si_2$ with superconducting microwave resonators at mK temperatures	
Monday	D013	Shuhei Takamatsu	Chiral superconductivity coexists with a nematic order in URu ₂ Si ₂	
Tuesday	D014	Jeroen Custers	Coexistence of Antiferromagnetism and Superconductivity in multi-site Cerium Compound Ce_3PtIn_{11}	
Monday	D015	Ryota Endo	Fine tuning of quantum criticality in heavy fermion superlattices ${\sf CeRhln}_{\sf s}/{\sf YbRhln}_{\sf s}$	
Monday	D017	Benidris Ahmed	The electronic and magnetic structure of "RESn ₃ " intermetallic compounds	
Tuesday	D018	Beilun Wu	Thermal transport study on the ferromagnetic superconductor UCoGe	
Tuesday	D020	Inna Vishik	Ultrafast dynamics in unconventional superconductors	
E : New superconducting materials				
Monday	E001	Thomas Gruner	Pronounced superconducting dome and phonon softening at a structural quantum critical point: The new Lu(Pt _{1,x} Pd _{x/2} In series	
Monday Tuesday	E001 E002	Thomas Gruner Thomas Bullard	Pronounced superconducting dome and phonon softening at a structural quantum critical point: The new Lu(Pt _{1-x} Pd _x) ₂ In series The Search for New Superconductors: An Investigation of the Solid Solutions CuAl _{1-x} Ga _x O ₂ and CuAl _{2-2x} Ga _{2x} O ₄	
Monday Tuesday Monday	E001 E002 E003	Thomas Gruner Thomas Bullard Jacilynn Brant	Pronounced superconducting dome and phonon softening at a structural quantum critical point: The new Lu(Pt _{1,x} Pd _x) ₂ In series The Search for New Superconductors: An Investigation of the Solid Solutions CuAl _{1,x} Ga _x O ₂ and CuAl _{2-2x} Ga _{2x} O ₄ A Search for Signatures of Superconductivity: Study of Rare Earth Oxides	
Monday Tuesday Monday Tuesday	E001 E002 E003 E004	Thomas Gruner Thomas Bullard Jacilynn Brant Huyen Nguyen	Pronounced superconducting dome and phonon softening at a structural quantum critical point: The new Lu(Pt _{1-x} Pd _x) ₂ In series The Search for New Superconductors: An Investigation of the Solid Solutions CuAl _{1-x} Ga _x O ₂ and CuAl _{2-2x} Ga _{2x} O ₄ A Search for Signatures of Superconductivity: Study of Rare Earth Oxides Pressure dependence of superconductivity in alkali-doped graphite, Ca _x K _{1-x} C _y (0 < x < 1)	
Monday Tuesday Monday Tuesday Tuesday	E001 E002 E003 E004 E006	Thomas Gruner Thomas Bullard Jacilynn Brant Huyen Nguyen Yoshikazu Mizuguchi	Pronounced superconducting dome and phonon softening at a structural quantum critical point: The new Lu(Pt _{1,x} Pd _x) ₂ In series The Search for New Superconductors: An Investigation of the Solid Solutions CuAl _{1,x} Ga _x O ₂ and CuAl _{2,2x} Ga _{2x} O ₄ A Search for Signatures of Superconductivity: Study of Rare Earth Oxides Pressure dependence of superconductivity in alkali-doped graphite, Ca _x K _{1-x} C _y (0 < x < 1) Relationship between superconducting property and crystal structure in BiS ₂ -based superconductors	
Monday Tuesday Monday Tuesday Tuesday Monday	E001 E002 E003 E004 E006 E007	Thomas Gruner Thomas Bullard Jacilynn Brant Huyen Nguyen Yoshikazu Mizuguchi Alberto De la Torre	Pronounced superconducting dome and phonon softening at a structural quantum critical point: The new Lu(Pt _{1-x} Pd _x) ₂ In seriesThe Search for New Superconductors: An Investigation of the Solid Solutions CuAl _{1-x} Ga _x O ₂ and CuAl _{2-2x} Ga _{2x} O ₄ A Search for Signatures of Superconductivity: Study of Rare Earth OxidesPressure dependence of superconductivity in alkali-doped graphite, Ca _x K _{1-x} C _y (0 < x < 1)	
Monday Tuesday Monday Tuesday Tuesday Monday Monday	E001 E002 E003 E004 E006 E007 E007	Thomas Gruner Thomas Bullard Jacilynn Brant Huyen Nguyen Yoshikazu Mizuguchi Alberto De la Torre Nikolaj Bittner	Pronounced superconducting dome and phonon softening at a structural quantum critical point: The new Lu(Pt1, Pd1, 2] In seriesThe Search for New Superconductors: An Investigation of the Solid Solutions CuAl1, Ga, 02 and CuAl2, 22x Ga2x 04A Search for Signatures of Superconductivity: Study of Rare Earth OxidesPressure dependence of superconductivity in alkali-doped graphite, CaxK1, Cy (0 < x < 1)	
Monday Tuesday Monday Tuesday Tuesday Monday Monday Tuesday	E001 E002 E003 E004 E006 E007 E009 E010	Thomas Gruner Thomas Bullard Jacilynn Brant Huyen Nguyen Yoshikazu Mizuguchi Alberto De la Torre Nikolaj Bittner Mário da Luz	Pronounced superconducting dome and phonon softening at a structural quantum critical point: The new Lu(Pt _{1-x} Pd _x) ₂ In seriesThe Search for New Superconductors: An Investigation of the Solid Solutions CuAl _{1-x} Ga _x O ₂ and CuAl _{2-2x} Ga _{2x} O ₄ A Search for Signatures of Superconductivity: Study of Rare Earth OxidesPressure dependence of superconductivity in alkali-doped graphite, Ca _x K _{1-x} C _y (0 < x < 1)	
Monday Tuesday Monday Tuesday Tuesday Monday Monday Tuesday Monday	E001 E002 E003 E004 E006 E007 E007 E009 E010 E011	Thomas Gruner Thomas Bullard Jacilynn Brant Huyen Nguyen Yoshikazu Mizuguchi Alberto De la Torre Nikolaj Bittner Mário da Luz O'Paul Isikaku-Ironkwe	Pronounced superconducting dome and phonon softening at a structural quantum critical point: The new Lu(Pt _{1-x} Pd _x) ₂ In seriesThe Search for New Superconductors: An Investigation of the Solid Solutions CuAl _{1-x} Ga _x O2 and CuAl _{2-2x} Ga _{2x} O4A Search for Signatures of Superconductivity: Study of Rare Earth OxidesPressure dependence of superconductivity in alkali-doped graphite, Ca _x K _{1-x} C _y (0 < x <1)	
Monday Tuesday Monday Tuesday Tuesday Monday Monday Tuesday Monday Tuesday	E001 E002 E003 E004 E006 E007 E007 E009 E010 E011 E011 E012	Thomas GrunerThomas BullardJacilynn BrantHuyen NguyenYoshikazu MizuguchiAlberto De la TorreNikolaj BittnerMário da LuzO'Paul Isikaku-IronkweHiroyuki Takeya	Pronounced superconducting dome and phonon softening at a structural quantum critical point: The new Lu(Pt _{1-x} Pd _x) ₂ In seriesThe Search for New Superconductors: An Investigation of the Solid Solutions $CuAI_{1-x}Ga_xO_2$ and $CuAI_{2-2x}Ga_{2x}O_4$ A Search for Signatures of Superconductivity: Study of Rare Earth OxidesPressure dependence of superconductivity in alkali-doped graphite, $Ca_xK_{1-x}C_y$ ($0 < x < 1$)Relationship between superconducting property and crystal structure in BiS ₂ -based superconductorsDoping evolution of the pseudospin-1/2 antiferromagnets Sr ² IrO ₄ and Sr ₃ Ir ₂ O ₇ from ARPESCollective modes in superconductors without inversion symmetrySuperconductivity in the Ternary HfVGe compoundComputational Design, Search and Discovery of YBCO-like HTSCs without CopperIn search of superconductivity in ARh ₃ B ₂ (A=Ca,Sr) and A _n M _{3n-1} B _{2n} (n=1: A=Ca, Sr; M=Rh, Ir and n=3: A= Ca, Sr; M=Rh) phases: pressure and substitutional studies	
Monday Tuesday Monday Tuesday Tuesday Monday Monday Monday Tuesday Monday Tuesday Monday Monday Monday Monday Monday Monday	E001 E002 E003 E004 E006 E007 E009 E010 E011 E012 E012 E013	Thomas Gruner Thomas Bullard Jacilynn Brant Huyen Nguyen Yoshikazu Mizuguchi Alberto De la Torre Nikolaj Bittner Mário da Luz O'Paul Isikaku-Ironkwe Hiroyuki Takeya Satoshi Demura	Pronounced superconducting dome and phonon softening at a structural quantum critical point: The new Lu(Pt _{1,x} Pd _x) ₂ In seriesThe Search for New Superconductors: An Investigation of the Solid Solutions CuAl _{1,x} Ga _x O ₂ and CuAl _{2-2k} Ga _{2x} O ₄ A Search for Signatures of Superconductivity: Study of Rare Earth OxidesPressure dependence of superconductivity in alkali-doped graphite, Ca _x K _{1-x} C _y (0 < x <1)	
Monday Tuesday Monday Tuesday Tuesday Monday Monday Monday Tuesday Monday Tuesday Monday Monday Monday Monday Monday Monday Monday Monday	E001 E002 E003 E004 E006 E007 E009 E010 E011 E012 E012 E013 E015	Thomas Gruner Thomas Bullard Jacilynn Brant Huyen Nguyen Yoshikazu Mizuguchi Nikolaj Bittner Nikolaj Bittner O'Paul Isikaku-Ironkwe Hiroyuki Takeya Satoshi Demura Bruno Sanches de Lima	Pronounced superconducting dome and phonon softening at a structural quantum critical point: The new Lu(Pt _{1,x} Pd _x) ₂ In seriesThe Search for New Superconductors: An Investigation of the Solid Solutions CuAl _{1,x} Ga _x O ₂ and CuAl _{2,2x} Ga _{2x} O ₄ A Search for Signatures of Superconductivity: Study of Rare Earth OxidesPressure dependence of superconductivity in alkali-doped graphite, Ca _x K _{1,x} C _y (0 < x <1)	
Monday Tuesday Monday Tuesday Tuesday Monday Monday Monday Tuesday Monday Monday Monday Tuesday Monday Tuesday Monday Tuesday Monday	E001 E002 E003 E004 E004 E006 E007 E007 E009 E010 E011 E011 E012 E013 E013 E015 E016	Thomas GrunerThomas BullardJacilynn BrantHuyen NguyenYoshikazu MizuguchiAlberto De la TorreNikolaj BittnerMário da LuzO'Paul Isikaku-IronkweHiroyuki TakeyaSatoshi DemuraBruno Sanches de LimaNatalia Lera	Pronounced superconducting dome and phonon softening at a structural quantum critical point: The new Lu(Pt _{1,x} Pd _x) ₂ In seriesThe Search for New Superconductors: An Investigation of the Solid Solutions CuAl _{1,x} Ga _x O ₂ and CuAl _{2-2x} Ga _{2x} O ₄ A Search for Signatures of Superconductivity: Study of Rare Earth OxidesPressure dependence of superconductivity in alkali-doped graphite, Ca _x K _{1-x} C _y (0 < x <1)	
Monday Tuesday Monday Tuesday Tuesday Monday Monday Monday Tuesday Monday Monday Tuesday Monday Tuesday Monday Tuesday Tuesday Tuesday Tuesday	E001 E002 E003 E004 E006 E007 E009 E010 E010 E011 E012 E013 E015 E015 E016 E0118	Thomas GrunerThomas BullardJacilynn BrantHuyen NguyenYoshikazu MizuguchiAlberto De la TorreNikolaj BittnerO'Paul Isikaku-IronkweHiroyuki TakeyaSatoshi DemuraBruno Sanches de LimaNatalia LeraThomas Bullard	Pronounced superconducting dome and phonon softening at a structural quantum critical point: The new Lu(Pt_1,Pd_1) eriesThe Search for New Superconductors: An Investigation of the Solid Solutions $CuAl_{1,x}Ga_xO_2$ and $CuAl_{2,2x}Ga_{2x}O_4$ A Search for Signatures of Superconductivity: Study of Rare Earth OxidesPressure dependence of superconductivity in alkali-doped graphite, $Ca_xK_{1,x}C_y$ ($0 < x < 1$)Relationship between superconducting property and crystal structure in BiSbased superconductorsDoping evolution of the pseudospin-1/2 antiferromagnets $Sr^2 IrO_4$ and $Sr_3 Ir_2O_7$ from ARPESCollective modes in superconductors without inversion symmetrySuperconductivity in the Ternary HfVGe compoundComputational Design, Search and Discovery of YBCO-like HTSCs without CopperIn search of superconductivity in ARh_3B_2 (A=Ca,Sr) and A_nM_{3n-1}B_{2n} (n=1: A=Ca, Sr; M=Rh, Ir and n=3: A= Ca, Sr; M=Rh) phases: pressure and substitutional studiesSurface structure of BiS2-based superconductor CeO _{1,x} F_xBiS_ observed by scanning tunneling microscopyEvidence of Superconductivity and Charge Density Wave instabilities in the quasi-one dimensional NbTe ₄₋₆ compoundCharge fluctuations and unconventional superconductivity in quasi-one-dimensional superconductorsAn Investigation into the Doped Paratacamite Group of Minerals as Potential Superconducting Materials	
Monday Tuesday Monday Tuesday Tuesday Monday Monday Tuesday Monday Tuesday Monday Tuesday Monday Tuesday Tuesday Tuesday Tuesday Tuesday Tuesday Tuesday Tuesday Tuesday	E001 E002 E003 E004 E006 E007 E007 E007 E009 E010 E010 E011 E012 E013 E013 E015 E016 E0118 E014	Thomas Gruner Thomas Bullard Jacilynn Brant Huyen Nguyen Yoshikazu Mizuguchi Alberto De la Torre Nikolaj Bittner Mário da Luz O'Paul Isikaku-Ironkwe Hiroyuki Takeya Satoshi Demura Natalia Lera Thomas Bullard Zhangtu Tang	Pronounced superconducting dome and phonon softening at a structural quantum critical point: The new Lu(Pt _{1,x} Pd _x) ₂ In series The Search for New Superconductors: An Investigation of the Solid Solutions CuAl _{1,x} Ga _x O ₂ and CuAl _{2,2x} Ga _{2x} O ₄ A Search for Signatures of Superconductivity: Study of Rare Earth Oxides Pressure dependence of superconductivity in alkali-doped graphite, Ca _x K _{1-x} C _y (0 < x <1) Relationship between superconducting property and crystal structure in BiS ₂ -based superconductors Doping evolution of the pseudospin-1/2 antiferromagnets Sr ² IrO ₄ and Sr ₃ Ir ₂ O ₇ from ARPES Collective modes in superconductors without inversion symmetry Superconductivity in the Ternary HfVGe compound Computational Design, Search and Discovery of YBCO-like HTSCs without Copper In search of superconductivity in ARh ₃ B ₂ (A=Ca,Sr) and A _n M _{3n-1} B _{2n} (n=1: A=Ca, Sr; M=Rh, Ir and n=3: A= Ca, Sr; M=Rh) phases: pressure and substitutional studies Surface structure of BiS2-based superconductor CeO _{1-x} F _x BiS ₂ observed by scanning tunneling microscopy Evidence of Superconductivity and Charge Density Wave instabilities in the quasi-one dimensional NbTe ₄₋₆ compound Charge fluctuations and unconventional superconductivity in quasi-one-dimensional superconductors An Investigation into the Doped Paratacamite Group of Minerals as Potential Superconducting Materials	
Monday Tuesday Monday Tuesday Tuesday Monday Monday Monday Monday Monday Monday Tuesday Monday Tuesday Monday Tuesday Tuesday Tuesday Tuesday Tuesday Monday	E001 E002 E003 E004 E006 E007 E009 E010 E011 E012 E012 E013 E013 E015 E016 E0118 E0118 E024 E025	Thomas GrunerThomas BullardJacilynn BrantHuyen NguyenYoshikazu MizuguchiAlberto De la TorreNikolaj BittnerMário da LuzO'Paul Isikaku-IronkweHiroyuki TakeyaSatoshi DemuraBruno Sanches de LimaNatalia LeraThomas BullardZhangtu TangGuanghan Cao	Pronounced superconducting dome and phonon softening at a structural quantum critical point: The new Lu(Pt ₁ , Pd ₂) ₂ In series The Search for New Superconductors: An Investigation of the Solid Solutions CuAl ₁ , Ga ₂ O ₂ and CuAl _{2-2x} Ga _{2x} O ₄ A Search for Signatures of Superconductivity: Study of Rare Earth Oxides Pressure dependence of superconductivity in alkali-doped graphite, Ca _x K _{1-x} C _y (0 < x <1) Relationship between superconducting property and crystal structure in BiS ₂ -based superconductors Doping evolution of the pseudospin-1/2 antiferromagnets Sr ² IrO ₄ and Sr ₃ Ir ₂ O ₇ from ARPES Collective modes in superconductors without inversion symmetry Superconductivity in the Ternary HfVGe compound Computational Design, Search and Discovery of YBCO-like HTSCs without Copper In search of superconductivity in ARh ₃ B ₂ (A=Ca,Sr) and A _n M _{3n-1} B _{2n} (n=1: A=Ca, Sr; M=Rh, Ir and n=3: A= Ca, Sr; M=Rh) phases: pressure and substitutional studies Surface structure of BiS2-based superconductor CeO _{1-x} F _x BiS ₂ observed by scanning tunneling microscopy Evidence of Superconductivity and Charge Density Wave instabilities in the quasi-one dimensional NbFe ₄₋₆ compound Charge fluctuations and unconventional superconductivity in quasi-one-dimensional superconductors An Investigation into the Doped Paratacamite Group of Minerals as Potential Superconducting Materials Unconventional superconductivity in quasi-one-dimensional A ₂ Cr ₃ As ₃ (A=Rb,Cs) Superconductivity in Cr-based arsenides with quasi-one-dimensional crystal structure	

Monday	E027	Chun-Hao Huang	Observation of superconductivity on the $Ba_{1-x}A_xTi_2Sb_2O$ (A = Li, Na, K, Rb, Mg) system with isostructural $BaTi_2Sb_2O$
Tuesday	E028	Dmitri Efremov	Time-Reversal Broken Chiral Superconducting Phase Driven by Electronic Correlations in $\mathrm{TiSe}_{\mathrm{2}}$
Tuesday	E030	Manabu Kamitani	Emergence or absence of superconductivity upon the suppression of structural phase transition in transition metal ditellurides MTe_2 with $M = Ir$ and V
Monday	E031	Toni Shiroka	Strongly-coupled pairing of weakly correlated electrons in the platinum-based SrPt ₃ P superconductor
Tuesday	E032	Timothy Haugan	Search for Superconductivity in Doped Carbon Allotropes
Monday	E033	Jong-Soo Rhyee	The Possible Coexistence of Superconductivity and Charge Density Wave in the Misfit-Layer Compound $(SnSe)_{1.18}(TiSe_2)_2$
Monday	E035	Pavol Banacky	New superconducting polymorph of MgB_2 : Large diameter multiwall nanotubes of MgB_2
Tuesday	E036	Gang Yu	Hydrothermal growth of large (Li _{1-x} FexOH)FeSe single crystals using floating-zone-grown $A_{0.8}Fe_{1.8}Se_2$ (A=K, Rb, Cs) as precursors
Monday	E037	Syu-You Guan	Scanning Tunneling Microscopy Study of Atomic and Electronic Structures of Non-Centrosymmetric Superconductor ${\rm PbTaSe}_{_2}$
Tuesday	E038	Nakheon Sung	Crystal growth and magnetism of iridate single crystals
Tuesday	E040	A. S. Abouhaswa	Sulfur substitution effects in iron chalcogenides Fe (Te,Se) superconductors
Monday	E041	Vera Smolyaninova	Superconducting critical temperature increase in electromagnetic metamaterials
Monday	E043	Yuita Fujisawa	Scanning tunneling microscopy and spectroscopy study of patchwork structure in Pt doped $\mathrm{IrTe}_{\mathrm{2}}$
Tuesday	E044	Rustem Khasanov	Pressure-induced electronic phase separation in CrAs
F : Mechanis	ms		
Monday	F001	Elisha Siddiqui	Typical Medium Dynamical Cluster Approximation For Disordered Superconductors
Tuesday	F002	Evgeny Mazur	Interband pairing and high Tc in superconductors
Monday	F003	Michael Sadovskii	Attractive Hubbard within the generalized DMFT+Sigma approach: normal state properties, disorder effects and superconductivity
Tuesday	F004	Aleksandr Povzner	Features of the electronic structure and crossover instabilities to ferromagnetism and superconductivity in strongly correlated transition metal compounds
Monday	F005	Arkadii Volkov	The exchange interaction and superconductivity strongly correlated compounds Pu-115
Tuesday	F006	Yuri Panov	$\label{eq:seudospin} \begin{array}{l} S = 1 \mbox{ formalism and phase diagrams for the three body constrained extended} \\ Bose-Hubbard model \end{array}$
Monday	F007	Shintaro Hoshino	Spin-triplet superconductivity induced by Coulomb interaction in multi-orbital electron systems
Tuesday	F010	Alexander Shekhtman	Decisive overhaul for BCS model
Monday	F011	Carolus Boekema	Pseudogap and positive hole effects, observed for RBCO, Fe ₃₀₄ & MgO
Tuesday	F012	Masashi Fujihara	Multimode phonon softening in the Lieb lattice with Holstein-type electron-lattice interaction
Monday	F013	Abid Boudiar	On the Universal Doping Values of the Cuprate Phase Diagram
Tuesday	F014	Walter Pogosov	Electron-hole symmetry, integrability and Richardson solution of pairing Hamiltonian
Monday	F015	George Kastrinakis	Variational wavefunction for multi-species spinful fermionic superfluids and superconductors
G : Miscellan	eous		
Monday	G004	Alexander McLeod	Cryogenic near-field microscopy of phase coexistence in correlated electron matter
H : New pers	pectives		
Monday	H001	Tomáš Bzdušek	Determining the pairing glue in superconductors: Insights from normal and anomalous propagators
Monday	H003	Yuta Murakami	Non-equilibrium dynamics of the Holstein model in the superconducting and normal phases

Tuesday	H004	Michael Osofsky	Superconductivity Near The Metal/Insulator Transition
Tuesday	H006	Lucia Komendova	Different couplings between the bands in multi-band superconductors
Tuesday	H008	Juergen Roehler	Elucidating superconductivity and fractional valence of elemental Eu under high-pressure
Tuesday	H010	Wei Chen	Room Temperature Spin Superfluidity in Multiferroics
Monday	H011	Manuel Nunez-Regueiro	Coexistence of different condensed ground states in quantum phase diagrams
Tuesday	H012	Yakov Kopelevich	Elusive superconductivity in CuC
Monday	H015	Stewart Barnes	Higgs mechanism in Superconductor and Magnets
Tuesday	H016	Robert Sobota	Influence of Ar and O_2 annealing atmospheres on critical temperature and critical magnetic fields of MgB ₂ nano-bridges
l : Organic Su	upercondu	ctors	
Tuesday	1002	Hirohito Aizawa	An effective model of organic conductor (TMTSF) $_2C_1O_4$ derived from maximally localized Wannier orbitals and its analysis of the superconducting state
Tuesday	1004	Yusuke Nomura	Fully non-empirical calculation of superconducting transition temperature for alkali- doped fullerides
Monday	1005	Hai-Qing Lin	Superconductivity in Potassium-Doped Benzene
Tuesday	1006	Lev Mazov	The Organic Sc: Af Sdw Transition, Preceding Sc one, and Strong Evidence for In-Plane, Combined Phonon-Exciton Mechanism of Sc
J : Two-dime	nsional Su	perconductivity	
Tuesday	J002	Davide Costanzo	Electrostatically induced Superconductivity in transition metal dichalcogenides: from $bulk-WS_2$ to mono-layer MoS_2
Monday	J003	Xinxin Gong	Possible p-Wave Superconductivity in Epitaxial Bi/Ni Bilayers
Monday	J005	Yu Saito	Exotic superconducting states in ion-gated two-dimensional materials
Tuesday	J006	Scott Dietrich	Differential resistance of atomically thin superconducting films
Monday	J007	William Mayer	Frequency Dispersion of Nonlinear Response of Thin Superconducting Films
Tuesday	J008	Evangelos Fillis Tsirakis	Evidence for Superconducting Vortices in the Insulating Regime of the ${\rm LaA_{I}O_{3}}\text{-}{\rm SrTiO_{3}}$ Interface Electron System
Monday	J009	Adkham Paiziev	Quantum Dimensional Effects in the Positron Annihilation Spectra of La-Ba-Cu-O Superconductors
Tuesday	J010	Xixiao Ma	Pseudogap and charge dynamics in doped Mott insulators on a honeycomb lattice
Monday	J011	Xixiao Ma	Doping dependence of specific heat in doped Mott insulators on a triangular lattice
Monday	J013	Ping-Chih Chiang	Development of High-Temperature Superconductivity in a Copper-oxygen Monolayer
Tuesday	J014	Alexey Pan	Is there a potential for applications within surface superconductivity?
Monday	J015	Dirk Fuchs	Two-dimensional superconductivity between ${\rm SrTiO}_3$ and amorphous ${\rm Al}_2{\rm O}_3$
Tuesday	J016	Tommaso Cea	Optical excitation of phase modes in strongly disordered superconductors
Monday	J017	Alexandre Fête	Unconventional behavior of J _c and H _c at the LaAlO ₃ /SrTiO ₃ interface
Tuesday	J018	Frederick Wells	Dynamic current profiling of $YBa_2Cu_3O_{7-\delta}$ thin films by calculation from ultra-fast magneto-optical imaging
Monday	J019	Stefano Gariglio	Study of Superconductivity at LaA ₁ O ₃ /SrTiO ₃ Interfaces by Field Effect
Tuesday	J022	Yasuharu Nakamura	Spin-orbit coupling and superconductivity in MoS ₂
Monday	J023	K. Tanaka	Van Hove singularity-driven charge density waves in an s-wave superconductor
Tuesday	J024	Shunsuke Yoshizawa	Superconducting characteristics of Si(111)-($\sqrt{7} \times \sqrt{3}$)-In covered with self-assembly monolayers of transition-metal phthalocyanines
Monday	J025	Dirk Fuchs	Pressure induced localization of the two-dimensional electron system in ${\rm LaA_1O_3/SrTiO_3}$
Tuesday	J027	Florence Levy-Bertrand	Surface superconductivity in the layer dichalcogenide $Cu_{10\%}$ TiSe ₂ a probe of the superconducting interaction coupling evolution from surface to bulk
K: Supercond	ducting De	vices	
Wednesday	K001	Rakesh Tiwari	Novel applications of Cooper-pair splitters

Wednesday	K003	Boris Chesca	Magnetic field-induced excitation of enhanced microwave radiation in YBaCuO Josephson- junction arrays at 77K and above
Thursday	K004	Levan Ichkitidze	A superconducting film magnetic flux transformer for a planar combined magnetic field sensor
Wednesday	K005	Hikaru Wakaura	Quantum Computation using Spin-Vortex induced loop current as qubit
Thursday	K006	Nicolas Bergeal	Terahertz heterodyne detection with high-Tc superconducting Josephson junctions
Thursday	K008	Thanh Dung Le	Thermal Design and Characteristic Analysis for a 1.5 MW-Class HTS Synchronous Motor with Different Types of Commercial 2G HTS Coated Conductor
Thursday	K010	Masayuki Suda	Organic superconducting transistor utilizing a photo-active electric-double-layer
Wednesday	K011	Levan Ichkitidze	Josephson medium-based magnetic field sensor
Thursday	K012	Mathieu Taupin	Field-induced thermalisation of hot quasiparticles in a normal-superconductor-normal device
Wednesday	K015	Riccardo Arpaia	YBCO nanowires to study nanoscale ordering in High Critical Temperature Superconductors
Wednesday	K017	levgeniia Nedoliuk	Compact superconducting magnet for magneto-optical infrared microspectroscopy
Thursday	K018	Christian Scheuerlein	Electrical resistance of superconducting wires and tapes
L : Iron-pnict	ide Supero	conductors	
Thursday	L002	Yu-Zhong Zhang	Magnetic Instability Controlled by interstitial or interlayer cations in iron chalcogenides
Wednesday	L003	Israel Perez	Electronic and crystalline structure of Co- and Te-Substituted FeSe
Thursday	L004	Hiroki Izawa	Superconducting properties of FeTe _{1-x} Se _x and A_x Fe _{2-y} Se ₂ wires and tapes by a PIT process
Thursday	L006	Marcin Matusiak	Violation of the Wiedemann-Franz law as an evidence of the pseudogap in the iron-based superconductor $Ba(Fe_{1-x}Co_{x})_{2}As_{2}$
Wednesday	L007	Agustin Conde-Gallardo	Growth of 1111 iron-pnictides superconducting films by combination of metalorganic chemical vapor deposition and arsenic diffusion processes
Thursday	L008	Maksym Surmach	Superconducting properties and pseudogap from preformed Cooper pairs in the triclinic $(CaFe_{1-x}Pt_xAs)_{10}Pt_xAs_8$
Wednesday	L009	David Möckli	Effective three-band structure in Fe-based superconductors
Wednesday	L011	Martin Nikolo	Upper Critical Fields in Bulk Pnictide Superconductors
Thursday	L012	Stefan-Ludwig Drechsler	Shifted van Hove singularity vs. vicinity of a selected Mott transitions in heavily hole doped K(Rb,Cs)Fe,As, pnictides: strong is the el-el interaction?
Wednesday	L013	Soon-Gil Jung	Improved intrinsic pinning by pressure-induced magnetic state in the high-T _c superconductor FeSe
Wednesday	L015	Mikhail Silaev	Leggett modes and vortex dynamics in time-reversal symmetry breaking multiband superconductors
Wednesday	L017	Biplab Bag	Magneto-optical imaging of coexistence of magnetic fluctuations along with superconductivity in BaFe _{1-x} Co _x As, single crystals
Thursday	L018	Chiara Mirri	Electrodynamics in the electronic nematic phase of BaFe,As,
Thursday	L020	Erik van Heumen	Direct observation of a Fermi liquid-like normal state in Co-doped BaFe ₂ As ₂
Wednesday	L021	Dmytro Inosov	Pseudogap from preformed Cooper pairs in a platinum-iron-arsenide superconductor
Thursday	L022	Alexandre Ouellet	Universal V-shaped phase diagram in the iron-based superconductors ${}_{\rm X}{\rm Fe}_{\rm 2}{\rm As}_{\rm 2}$ (X = K, Rb, Cs)
Wednesday	L023	Chin Shan Lue	NMR study of electronic structures of ThCr,Si,-type La _{1-x} Y _x Co ₂ B ₂
Thursday	L024	Yun Song	Competition between the multi-orbital interactions and the effect of disorder in Cu substituted Fe-based superconductor
Wednesday	L025	Alexander Herbig	Investigation of substitution effects in the 122-family of the iron superconductors via orbital based CPA
Thursday	L026	Hadrien Grasland	Out-of-equilibrium signatures of electron-boson coupling in the point contact spectra of iron-based superconductors
Thursday	L028	Wei-Qiang Chen	Theoretical investigation of superconductivity on a fully occupied band in LiFe $_1$, Co, As
Wednesday	L029	Hikaru Sato	Unusual pressure effects on superconducting properties of cobalt-doped BaFe ₂ As ₂ epitaxial films

Wednesday	L031	Marcin Konczykowski	Identification of vortex pinning and creep regimes in BaK_{122} family of iron based superconductors using heavy – ion and electron irradiation
Thursday	L032	Marcin Konczykowski	Tuning the composition-temperature phase diagram of iron-based superconductors by irradiation-induced disorder
Thursday	L034	Mareike Hoyer	Pair-breaking due to orbital magnetism in iron-based superconductors
Thursday	L036	Jiunn-Yuan Lin	Nematic order and Fermi surface reconstruction of chalcogen Fe-based superconductors
Wednesday	L037	Brian Andersen	Magnetic double-Q phases in iron pnictides and their interactions with superconductivity
Thursday	L038	Motoyuki Ishikado	Q-dependence analysis of the inelastic neutron scattering data on $Fe(Te_{0.5}Se_{0.5})$ to discriminate the origin of the "magnetic resonance mode"
Thursday	L040	Ben Mallett	Infrared study of the spin reorientation transition and its superconductivity-induced reentrance in underdoped $Ba_{1x}K_xFe_2As_2$
Wednesday	L041	Igor Devyatov	The Microscopic Theory of a Normal and the Josephson Current in Junctions with Multiband and Topological Superconductors
Thursday	L042	Andrea Pisoni	Superconducting Properties of $Pr_4Fe_2As_2Te_{1-x}O_4$ and $Sm_4Fe_2As_2Te_{1-x}O_{4-y}F_y$
Wednesday	L043	Patrick Bourgeois-Hope	Field dependence of thermal conductivity in $_{x}Fe_{2}As_{2}$ (X = K, Rb, Cs)
Thursday	L044	Seiki Komiya	Charge tranport and superconducting properties of $\text{FeSe}_x\text{Te}_{1-x}$ (0.1 \leq x \leq 0.4) single crystals with reduced interstitial Fe
Wednesday	L045	Morten Christensen	Spin fluctuations in Fe-based superconductors and the onset of nematic order
Thursday	L046	Sina Zapf	Tracing the s \pm symmetry in iron pnictides
Wednesday	L047	Atsutaka Maeda	Direct observation of mesoscopic phase separation in $\mathrm{K_xFe_ySe_2}$ by scanning microwave microscopy
Wednesday	L049	Sultan Demirdis	Investigation of Vortex Lattice in Optimally Doped ($Ba_1 - {}_xK_x$) Fe_2As_2 Using SANS
Thursday	L050	Yoji Koike	Superconductivity in alkali-metal- and linear-organic-molecule-intercalated FeSe
Wednesday	L051	Vadim Grinenko	Strain effect on the phase diagram of Ba-122
Thursday	L054	Masashi Tanaka	Preparation and Superconducting Properties of Potassium Doped Iron Selenides, KFe ₂ Se ₂
Wednesday	L055	Shigeki Miyasaka	Evolution of Fermi surfaces of NdFeP $_{_{1-x}}As_{_x}(0,F)$ single crystals observed by angle resolved photoemission spectroscopy
Thursday	L056	Yoshinori Imai	Suppression of Phase Separation and Enhanced Superconducting Transition Temperature of $FeSe_{1-x}Te_x$ Thin Films
Wednesday	L057	Yoshihiko Takano	Inducement of Superconductivity in Iron Chalcogenides by the deintercalation of excess Fe
Thursday	L058	Yoshinori Imai	Terahertz-wave conductivity measurements of SmFeAs(0,F) epitaxial thin films
Wednesday	L059	Daoxin Yao	Modulation of Pairing Symmetry with Bond Disorder in Iron-based Superconductors
Thursday	L060	Tatsunori Okada	Superconducting-Gap Structures of Iron-Based Materials Investigated by Magnetic Penetration Depth and Flux-Flow Resistivity
Wednesday	L061	Kazuhiko Ikeuchi	On anomalous phonon behavior and magnetic excitation of superconducting $Ca_{10}Pt_4As_8(Fe_{1-x}Pt_xAs)_{10}$ (x ~ 0.2) observed by neutron inelastic scattering measurements
Wednesday	L063	Pierre Massat	Charge nematic fluctuations and superconducting gap in $\text{Ba}_{(1-x)}\text{K}_x\text{Fe}_2\text{As}_2$ and FeSe probed by Raman scattering
Thursday	L064	G. N. Phan	High-resolution arpès study of strain effects on the electronic structure of FeSe
Wednesday	L065	Rolf Lortz	High pressure thermodynamic and thermoelectric measurements on Fe-based superconductors
Thursday	L066	Shinichi Shamoto	Possible nematic ordering of $FeTe_{0.5}Se_{0.5}$ based on the incommensurate magnetic excitation
Thursday	L068	Jonathan Pelliciari	Persistence of high-energy spin fluctuations in electron doped NaFeAs
Wednesday	L069	Nikolai Zhigadlo	Recent results on high-pressure synthesis and characterization of complex oxides and intermetallic superconductors
Wednesday	L073	Gianrico Lamura	Superconductivity and slow-fluctuating magnetism in NdFeAsO $_{1-x}F_x$
Thursday	L074	Samuele Sanna	Competition between the poisoning effect of magnetic impurities and the Tc enhancement driven by chemical pressure in $La_{1,v}V_{v}Fe_{1,v}Mn_{v}AsO_{0.89}F_{0.11}$
Wednesday	L075	Yasuyuki Nakajima	High-temperature superconductivity in collapsed tetragonal phase of KFe ₂ As ₂ under high pressure

Thursday	L076	Zbigniew Bukowski	Peculiar superconducting and magnetic properties of doped iron pnictide ${\rm EuFe_2As_2}$ and ${\rm CaFe_2As_2}$ single crystals
Wednesday	L077	Hidetomo Usui	Origin of the non-monotonic variance of $T_{\!_c}$ in the 1111 iron based superconductors with isovalent doping
Thursday	L078	Kyungwan Kim	Ultrafast dynamics of Ba(Fe,Co) ₂ As ₂
Thursday	L080	Oskar Vafek	Distinguishing spin-orbit coupling and nematic order in the electronic spectrum of iron- based superconductors
Wednesday	L081	Yaobo Huang	Connection between high-energy spin-excitations and degree of electron correlations in $Ba(Fe_{1-x}Co_x)_2As_2$ superconductors
Thursday	L082	Shigeru Kasahara	Pair condensation in the BCS-BEC crossover of FeSe
Thursday	L084	Stephan Knöner	Resistivity measurements under hydrostatic (He-gas) pressure and magnetic fields on single crystalline FeSe
Wednesday	L085	Giorgio Levy	Probing the role of transition metal substitution in iron-pnictides superconductors
Wednesday	L087	Henrik Ronnow	Magnetic hourglass dispersion and its relation to high-temperature superconductivity in iron- and pressure-tuned $Fe_{1+y}Te_{0.7}Se_{0.3}$
Thursday	L088	Xiaoli Dong	Phase diagram and characterizations of $(Li_{1,x}Fe_x)$ OHFeSe
Wednesday	L089	Girsh Blumberg	Critical Charge Fluctuations in Iron Pnictide Superconductors
Thursday	L090	Yurii Naidyuk	Observation of indirect excitons by the point-contact spectroscopy of iron-based superconductor ${\rm KFe_2As_2}$
Wednesday	L091	Anna Ciechan	Density functional study of TM-doped FeSe: influence of magnetism on superconductivity
Wednesday	L093	Pooran Singh	Interplay of Spin Density Wave and Superconductivity in Iron based Superconductors
Thursday	L094	Thomas Boehm	Doping dependence of two competing pairing channels in $Ba_{1-x}K_xFe_2As_2$
Tuesday	L095	Kuan-Jen Wang	Ultrafast dynamics of quasiparticles and coherent acoustic phonons in nearly optimally doped (BaK)Fe ₂ As ₂
Thursday	L098	Dmitri Efremov	Impact of resonance impurities in Fe-based superconductors
Wednesday	L099	Christian Hess	Nernst effect and nematic fluctuations in doped BaFe ₂ As ₂
Thursday	L100	Lev Mazov	The iron-based htsc: quantum oscillations, af sdw transition and strong evidence for in- plane, phonon-exciton mechanism of htsc
Wednesday	L101	Lan Maria Tran	Influence of the canted antiferromagnetic structure on the orbital pair breaking effect in Ca and Co-doped ${\rm EuFe_2As_2}$ compounds
Thursday	L102	Christian E. Matt	The effect of As-chain layers on the electronic structure in '112' iron-pnictides – a high-resolution ARPES study
Wednesday	L103	Andrzej Ptok	Multiple phase transitions in Pauli limited iron-based superconductors
Thursday	L104	Vadim Grinenko	Nodal d-wave superconductivity in $K_{_{1-x}}Na_xFe_2As_2$ system: new scaling of the specific heat jump with $\Delta C\sim T_{_L^\beta}$ with $\beta{\approx}2$
Wednesday	L105	Jitae Park	Resonant magnetic excitations in S-doped iron-chalcogenide superconductors
Wednesday	L107	Joerg Fink	Non-Fermi-liquid scattering rates and anomalous band dispersion in ironpnictides and ironchalcogenides - an ARPES study
Thursday	L108	Stefan Richter	Structural and superconducting properties of epitaxial $Fe_{1+y}Se_{1-x}Te_x$ thin films
Wednesday	L109	Tatsuya Watashige	Possible time reversal symmetry breaking at the twin boundaries in FeSe studied by STM/ STS
Thursday	L110	Zhe Wang	Orbital selective correlation effects in superconducting Fe chalcogenides
Wednesday	L111	Takahiro Urata	Impurity substitution effects on superconductivity in FeSe single crystal
Thursday	L 112	Ahmet Ekicibil	The Superconducting Properties in Iron-Based Superconductor $\rm Cs_{1,6}Fe_4Se_5$
Wednesday	L113	Xiaohai Niu	Identification of prototypical Brinkman-Rice Mott physics in a class of iron chalcogenides superconductors
Thursday	L114	Kosuke Nakayama	Electronic nematicity and unconventional superconductivity in FeSe
Wednesday	L115	Ramakrishna Prasad Aluru	Probing the local effects of impurities in the superconducting and normal state of iron pnictide superconductor LiFeAs
Thursday	L118	Jamie Booth	Mott physics made easy: combining spatially correlated on-site repulsion with the GW approximation, and application to LiFeAs

Wednesday	L119	Yung-Chi Lee	Transport properties of potassium-intercalated iron selenide ($K_{2-x}Fe_{4+y}Se_5$) with disordered Fe vacancies and superconductivity
Thursday	L120	Maciej Fidrysiak	Longitudinal spin fluctuations in BaFe ₂ As ₂
Wednesday	L121	Romain Viennois	Anisotropic magnetic and superconducting properties of iron chalcogenides under high magnetic field: field-induced irreversible transition and peak effect
Wednesday	L123	Takami Tohyama	The Effect of Dirac Electrons on In-Plane Anisotropy and Superconductivity in the Antiferromagnetic phase of Iron-Based Superconductors
Thursday	L124	Yuriy Goryunov	Features of the ESR in 1-2-2 pnictides: EuFe ₂ As ₂ and EuCd ₂ As ₂
Wednesday	L125	Xiao-Jia Chen	Pressure effects on superconductivity in BaFe ₂ As ₂ from electron to hole doping
Thursday	L126	Rajib Sarkar	Pseudogap behavior in the iron based $Ca_{10}(Pt_3As_5)(Fe_{1-x}Pt_xAs)_{10}$ system as reflected in NMR
M : Other su	perconduc	tors	
Wednesday	M003	Hüseyin Yasin Uzunok	Specific phonon contributions in layer-like structured boride-carbide crystals with bcs- type superconductivity
Thursday	M004	Artur Durajski	On the superconductivity in hydrogen sulfide at record high temperature
Tuesday	M005	Jean-Claude Grivel	Effect of Er ₂ O ₃ particles and carbon doping in MgB ₂ wires
Thursday	M006	Shachar Lerer	Onset of Nernst Effect Beyond the Coherence Critical Field of a Nano-Scale Granular Superconductor
Wednesday	M007	Mohammed Elmassalami	The influence of multiorbicity and localization effects on the normal-state and superconducting phase diagrams of Fe-based chalcogenides superconductors
Thursday	M008	Alistair Cameron	Measurements of the magnetic vortex lattice in the noncentrosymmetric superconductor ${\sf Ru}_{7}{\sf B}_{3}$
Thursday	M010	Pavol Banacky	New superconducting polymorph of MgB ₂ : Large diameter multiwall nanotubes of MgB ₂
Wednesday	M015	Dah-Chin Ling	Tuning superconducting and charge transport properties of hexagonal tungsten bronzes $Rb_{_{0.23}}WO_v$ by varying oxygen content
Thursday	M016	Michael Reissner	Testing the stability of the vortex lattice of silver sheathed $Sr_{0.6}K_{0.4}Fe_2As_2$ tapes by magnetic relaxation measurements
Wednesday	M017	Nimrod Bachar	Collective Phase Mode in the Unconventional Nano Scale Granular Aluminum Superconductor
Thursday	M018	Clément Collignon	First critical field of superconducting SrTiO $_{_{3\!-\!\delta}}$
Thursday	M020	Patrick Alknes	Magnetization Measurements of MgB ₂ Multifilamentary Wires
Wednesday	M021	Tiziana Spina	High energy proton irradiation on Nb_3Sn wires and thin platelets for the HL-LHC accelerator
Thursday	M022	Ted Grant	Effects of Ni-Substitution in Noncentrosymmetric Superconductor ThCoC ₂
Wednesday	M023	Romain Viennois	Lattice dynamics, electronic structure and phase diagram of superconducting silicide clathrates
Thursday	M024	Anna Maria Novello	Charge density waves and superconductivity in Cu _x TiSe ₂
N : Bulk appl	ications		
Wednesday	N003	Roger Bjoerstad	Simultaneous measurement of critical current, stress, strain and lattice distortions in multifilamentary superconductors
Wednesday	N005	Masaru Tomita	Evaluation of the magnetic field characteristic of bulk superconductor annuli
0 : Supercon	ductivity i	n artificially structured s	systems
Wednesday	0001	Walter Pogosov	Dynamical Lamb effect in superconducting microstructures
Thursday	0002	Hadar Greener	Proximity Effect in Ferromagnetic-Superconducting Granular Structures
Wednesday	0007	Naravan Mohanta	Role of inhomogeneity in superconductivity at LAAO /SrTiO_interface
Wednesday	0009	Davide Filippo Valentinic	Multihand BCS superconductivity at low density
Thursday	0010		Tuning Majorana hound states in silicone SES heteroiunctions
Thursday	0010		Infinity majorana bound states in sincene si s neterojunctions
mulsuay	0012		superconducting cuprates and ferromagnetic manganites

Wednesday	0013	Margriet Van Bael	Probing the effects of phonon confinement in nanoscale Sn superconductors	
Thursday	0014	Kouichi Semba	A superconductor diamond quantum hybrid system	
Thursday	0016	Michael Koblischka	Dynamic flux creep in networks of electrospun superconducting ${\rm Bi_2Sr_2CaCu_20}_{_{8+x}}$ nanowire networks	
Wednesday	0017	Thomas Lemberger	Measurement of superfluid densities and Tc's in both superconducting layers of superconductor/ferromagnet/superconductor trilayers	
Thursday	0018	Pavel Leksin	Ordinary and Triplet Superconducting Spin Valve Effect in Fe/Pb based heterostructures	
Wednesday	0019	Andrey Boris	Evidence for Nonlocal Electrodynamics in Planar Josephson Junctions	
Thursday	0020	Stefano Voltan	Extraordinary proximity effect in superconducting triplet spin valves	
Wednesday	0021	Margherita Boselli	Realization of superconducting nanodevices at the interface between ${\rm LaA_{I}O_{3}}$ and ${\rm SrTiO_{3}}$	
Thursday	0022	Gad Koren	Proximity and gating effects in Bi ₂ Se ₃ -NbN thin film bilayers	
P : Topologic	al Superco	nductors		
Wednesday	P001	Ming-Che Chang	Chiral magnetic effect in a two-band lattice model of Weyl semimetal	
Thursday	P002	Alexander Zyuzin	Josephson junction through disordered topological insulator	
Wednesday	P003	Chung-Yu Mou	Possible signatures of Majorana modes in tunneling spectroscopy of high-Tc cuprate superconductors	
Wednesday	P005	Tatsuki Hashimoto	Surface states of superconducting topological crystalline insulator	
Thursday	P006	Boris Shapiro	Superconductivity in 3D Dirac semi-metals	
Wednesday	P007	Fan Yang	Time-Reversal-Invariant Topological Superconductivity in n-type Doped BiH	
Wednesday	P009	Shingo Kobayashi	Topologically stable gapless phases in odd-parity superconductors	
Thursday	P010	Yuki Nagai	Quasiparticle excitations in a three-dimensional nodal topological superconductor	
Wednesday	P011	Angelina Burmistrova	The microscopic tight-binding approach to description of charge transport in structures with multiband materials	
Wednesday	P013	Shancai Wang	Band structure study of Topological-Metal to Band-Insulator Transition in $In-Bi_2Se_3$	
Thursday	P014	Alexander Ionov	The superconducting properties of graphene dioxide with mesoscopic dimensions embedded in polystyrene	
Wednesday	P015	Florian Loder	Route to Topological Superconductivity via Magnetic Field Rotation	
Thursday	P018	Wei Chen	Majorana Edge States in Superconductor/Noncollinear Magnet Interfaces	
Wednesday	P021	James A. Sauls	Edge States and Edge Currents in Chiral P-wave Superconductors with Strong Anisotropy and Confinement	
Thursday	P022	Mauro Doria	Is the pseudogap a topological state?	
Wednesday	P023	Carsten Timm	Time-reversal symmetry breaking at the surface of a noncentrosymmetric superconductor	
Thursday	P024	Philip Brydon	Bound states of a ferromagnetic wire in a superconductor	
Q : Transport and thermodynamic properties				

Wednesday	Q001	Igor Fomin	Discrete pair-breaking impurities in superconductors and superfluids	
Wednesday	Q003	Nikolay Sluchanko	Superconductivity mediated by quasi-local modes in borides $r_{1,x} u_xb_{12}$	
Thursday	Q004	Mikhail Silaev	Transport properties of spin-polarized superconductors	
Thursday	Q006	Yung-Kang Kuo	Electrical and thermal transport properties of Nb and Ru doped Mo ₃ Al ₂ C superconductors	
Thursday	Q008	Jozef Kačmarčík	Specific heat study of superconductivity in $\beta - Bi_2 Pd$	
Thursday	Q012	Vladimir Kozhevnikov	Intermediate State revised: comprehensive solution	
Wednesday	Q013	Masaru Tomita	The value of the superconducting tapes for superconducting cables for railway systems	
Thursday	Q014	D. A. Zocco	Pressure dependence of the charge-density-wave and superconducting states in ${\rm GdTe}_{\rm 3},$ ${\rm TbTe}_{\rm 3}$ and ${\rm DyTe}_{\rm 3}$	
Thursday	Q018	Shyam Sundar	Multiband superconductivity in the β -phase $Mo_{_{1-x}}Re_{_x}$ alloys and the influence of electronic topological transitions	

R : Vortex matter				
Wednesday	R001	Frederick Wells	Short-range order and vortex grouping observed in isotropic vortex glass by scanning SQUID microscopy of low-field-cooled YBa ₂ Cu ₂ 0 _{2.8} thin films	
Wednesday	R003	Harkirat Singh	Effect of magnetic field pulse on the zero field cooled and field cooled state of Co _{0.0075} NbSe ₂	
Thursday	R004	Larbi Ammor	The origin of the peak effect in superconductors: dynamic phase transition in driven flux-line lattice	
Thursday	R006	Jérémy Brisbois	Classical analogy for the deflection of flux avalanches by a metallic layer	
Wednesday	R007	Roland Willa	The Campbell length in the presence of strong vortex pinning	
Thursday	R008	Somesh Chandra Ganguli	Two step disordering of the vortex lattice across the peak effect in a 3-dimensional type II superconductor $Co_{0.0075}NbSe_2$	
Wednesday	R009	Yosi Yeshurun	Dendritic flux instabilities in YBCO films exposed to an ultra-fast field ramp	
Thursday	R010	Michael Baziljevich	Flux flames and avalanches in ultrapure $\mathrm{MgB}_{\mathrm{2}}$ films observed by magneto-optical imaging	
Wednesday	R013	Nail Suleimanov	Pinning properties of superconducting composites on the base of magnesium diboride, carbon nanotubes and magnetic nanoparticles	
Thursday	R014	Satyajit Banerjee	Multiple current density states inside a superconducting single crystal patterned with nanosized blind hole array with hexagonal symmetry	
Thursday	R016	Zuzana Medvecka	Vortex penetration into superconductive Cu _x TiSe ₂	
Wednesday	R017	Bastien Michon	Development of sensitive modulation calorimetry up to 36T and down to 1.2K	
Thursday	R018	Kazuto Hirata	Oscillatory behaviour of vortex-lattice melting line in finite size Bi ₂ Sr ₂ CaCu ₂ O _{8+y} superconductor	
Wednesday	R019	Ilya Sannikov	Flux-creep activation energy in YBa ₂ Cu ₃ O _{7-x} thin films	
Thursday	R020	Levan Ichkitidze	The constitutive equation of the Josephson medium	
Wednesday	R023	Martin Nikolo	Frequency dependent flux dynamics and activation energies in pnictide bulk ($Ba_{_{0.56}}K_{_{0.44}}$) Fe ₂ As ₂ superconductor	
Thursday	R024	Hyeong-Jin Kim	Full vortex phase diagram in the flux line lattice of NbSe ₂	
Wednesday	R025	Marco Bonura	Dynamic and thermodynamic effects behind the peak effect	
Thursday	R026	Freek Massee	Imaging Atomic-scale Effects of High Energy Ion Irradiation on Superconductivity and Vortex Pinning in Fe(Se,Te)	
Thursday	R028	Sanjeev Kumar	Origin of Vortex Matching Effect in Anti-dot Array of Superconducting NbN Thin Films	
Thursday	R030	Morten Ring Eskildsen	Vortex Lattice Metastability and Power Law Dynamics in MgB ₂	
Wednesday	R031	Huan Yang	Anisotropic Superconducting Gap and Elongated Vortices with Caroli-De Gennes-Matricon States in the New Superconductor $Ta_4Pd_3Te_{16}$	
Wednesday	R033	Satyajit Banerjee	Characterizing the vortex Jamming transition in 2H-NbS ₂ crystal: Negative vortex velocity events, fluctuation relations and large deviation function	
Thursday	R034	Randeep Riyat	High magnetic field studies of the vortex lattice structure in $Y_{0.96}$ Ca _{0.04} Ba ₂ Cu ₃ O ₇	
S : Superconductivity in ruthenates and related materials				
Wednesday	S001	Andrzej M. Oles	Multiband d-p model for a RuO ₄ layer	
Thursday	S002	Jorge Luiz Pimentel Jr.	Spin polarized current and formation of magnetic polarons in rutenocuprates	
Thursday	S004	Kazuhiro Yamaki	Growth and Characterization of single crystals in Ru-Sr-Gd-Cu-O system by using self-flux method	
Wednesday	S005	Yuuki Yasui	Transport properties of a micro-ring of spin-triplet superconductor ${\rm Sr_2RuO_4}$ for half-quantum fluxoid detection	
Thursday	S006	Shingo Yonezawa	Superconducting and vortex phase diagrams of Sr ₂ RuO ₄	
Wednesday	S009	Sungkit Yip	Mesoscopic P-wave superconductor	

11 GENERAL INFORMATION

11.1 Date and Place of M2S 2015

The congress M2S will take place in Geneva, Switzerland from the 23 - 28 August 2015.

Congress Venue: International Conference Centre Geneva (CICG) 17 rue de Varembé 1211 Genève 20 www.cicg.ch

11.2 Getting to Geneva

The long history of this city, its development and the vision of its authorities means that Geneva blends the many advantages of a small city with the services and facilities of a large metropolitan area. Great visionaries such as Rousseau, Voltaire, Henri Dunant have lived and worked in Geneva, and nowadays the city is home of CERN, and of the University of Geneva. Geneva's tradition of welcoming people from all over the world makes it a unique and privileged destination. The central European location of this city and the accessibility provide an ideal setting for international meetings and events such as M2S-2015.

Besides its reputation as home to famous academic and research institutions, the city is known world wide for its beauty with breath-taking views of the surrounding Alps and Jura.

11.2.1 By plane

There are excellent flight connections to Geneva. Several airlines provide direct flights to Geneva from all over Europe as well as from countries outside Europe. The airport is located at 4 km from Geneva city centre. It can be easily reached by train or by bus using the united network of public transport, Unireso (www.unireso.com). Tourist information can be obtained at the information counter in the arrivals hall of the airport.

When you arrive at Geneva Airport, you can pick up a free ticket for public transport from the machine in the baggage claim area.

This Unireso ticket, offered by Genève Aéroport, allows you to use public transport in Geneva free for a period of 80 minutes. It takes only 6 minutes from/to Geneva city centre by train, leaving approximately every 12 minutes from the airport. There is direct access to the airport railway station from the airport Check-in and Arrival levels.

All trains stop at Geneva-Cornavin station (city centre). Several urban buses stop approximately every 8-15 minutes at the airport (bus stops at the Check-in level, in front of or beside the train station).

It takes only 6 minutes from/to Geneva city centre by train (every 12 minutes at rush hours). The airport railway station has direct access to the airport Check-in and Arrival levels. All trains stop at Geneva-Cornavin station (city centre).

Geneva Airport Information: +41 22 717 71 05 Flight information: 0900 57 15 00 / www.gva.ch

11.2.2 By train

More people use the train in Switzerland than in any other country in the world. Geneva has excellent connections within the European railway network. The Swiss SBB connects Geneva to all the neighbouring countries. Geneva Cornavin train station is right in the heart of the city. See the Swiss Railway company website for more information (www.cff.ch).

11.2.3 By car

All roads lead to Geneva, it is at the crossroads of the European motorway network. The N1 motorway alongside Lake Geneva circles the city and also leads straight into the centre. At the French border in Bardonnex, it joins the A40 towards Lyon and Paris, or Chamonix and Italy.

11.2.4 Public Transport

Only one ticket is required to travel by train, tram, bus or boat in the area France-Vaud-Geneva. If you are staying at a Geneva hotel, a youth hostel or a campsite, the establishment will offer you the «Geneva Transport Card» that allows you to use public transport in Geneva free of charge during your stay. Ask for it when you check-in to your hotel!

11.3 Getting to the Congress Venue

11.3.1 Buses and Tramway

The buses and trams around Geneva run from about 05:00 – 24:00. Depending on the line, additional night buses and trams are scheduled after midnight on weekends.

From	Name of bus stop to CICG	Bus/tram	Direction
Main Station Cornavin	Vermont (CICG)	Bus 5	Airport
Main Station Cornavin	Sismondi (CICG)	Tram 15	Nations
Airport	Vermont (CICG)	Bus 5	Thônex Vallard

11.3.2 Where to park you car

A spacious parking lot is situated right next to the CICG called "Parking des Nations" on Rue de Varembé. It has space for approximately 1,900 vehicles, and is located within walking distance of the CICG. Please note that parking is at your own cost.

11.3.3 Taxi

Taxi services in Geneva operate 24 hours a day, 7 days a week. There are many taxi stands around the city and you can call 41 (0)22 331 41 33 at any time for a scheduled pick-up.

If you would like to ask to be picked up or dropped off directly at the CICG, please ask the driver for "Esplanade du CICG", which will transport you to the closest entrance of the congress.

11.4 Getting to the Public Lecture (Uni Dufour)

Address: Uni Dufour Auditoire Piaget 24, rue du Général-Dufour 1205 Geneva



By Public Transport

From	Name of stop to Uni Dufour (B)	Bus / Tram	Direction
CICG (Vermont)	Place de Neuve (A)	5	Thônex Vallard
CICG (Sismondi)	Cirque (A)	15	Lancy/Les Palettes
Train Station (Cornavin)	Cirque (A)	15	Lancy/Les Palettes

From either stop it is a 200m walk to the University Building.



11.5 Getting to the Conference Dinner (Bâtiment des Forces Motrices)

Address: Bâtiment des Forces Motrices (BFM) 2, Place des Volontaires 1204 Geneva

By Public Transport

From	Name of stop to BFM (B)	Bus / Tram	Direction
CICG (Sismondi)	Stand (A)	15	Lancy/Les Palettes

From Stand it is about a 350m walk to the entrance of the building.





11.6 About Geneva

Situated between lake and mountains, Geneva is home to famous academic and research institutions, in particular the University of Geneva founded in 1559 by Jean Calvin, and CERN. Geneva is the headquarters of numerous international organizations such as the United Organization, the World Health Organization, the International Labour Office, the International Red Cross, among others. More than 200 international organisations are based in Geneva. Geneva has all the advantages of a small city combined with the facilities and services usually only found in much larger cities. The city and the surrounding areas in Switzerland and France offer many leisurely activities, cultural events, museums, historic sites, excellent food, and vineyards producing great regional wines.

11.6.1 Weather

August is a good time to visit Geneva. Temperatures range from 17°C to 27 °C. Evenings may be cool, in particular outdoors at the lakeside. It is advisable to bring some warm clothes with you. The weather in August is mostly sunny. On the average you can expect 7 hours of sunshine each day although you may experience some rain.

11.6.2 Visa & Invitation Letter

EU citizens only require their national identity papers to travel to Switzerland. Citizens from most other countries will need a valid passport. They are encouraged to contact their local Swiss embassy or consulate to enquire about the necessity of a visa.

11.6.3 Letter of Invitation

Upon request, the chairman of the Conference will be pleased to send a personal letter of invitation to enable participants to obtain supporting funds or visas to attend the Conference. These invitation letters cannot be considered an offer of financial support by the organisers.

11.6.4 Currency

The local currency is the Swiss Franc (CHF). One Swiss Franc equals approximately 0,96 Euro and 1.06 Dollar (as of July 2015). Banking hours are from Monday to Friday, 8h30 to 16h30.

11.6.5 Shops

Geneva's shops are open Monday to Friday from 8h30 to 19h and Saturday from 8h30 to 18h. Thursday evenings until 21h.

11.6.6 Tourist information

Information on the town of Geneva and the surrounding area with suggestions for activities and excursions can be obtained through the website (www.geneve-tourisme.ch).

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TUESDAY, 25 AUGUST 2015, 19H00 UNI DUFOUR, RUE GÉNÉRAL-DUFOUR 24, 1205 GENEVA

SUPER-CONDUCTIVITY Theory and practical challenges of a quantum phenomenon

Talks by J. Georg Bednorz Nobel Prize in Physics (1987), IBM Research Zurich

Louis Taillefer Physicist and Professor at the University of Sherbrooke, Canada

Talks held in English and French with simultaneous translation.