CONFERENCE PROGRAM

The 12th International Conference on Materials and Mechanisms of Superconductivity and High Temperature Superconductors (M²S-2018)

August 19 - 24, 2018, Beijing, China

Organized by: National Lab for Superconductivity,
Institute of Physics, Chinese Academy of Sciences

http://www.m2s-2018.com/

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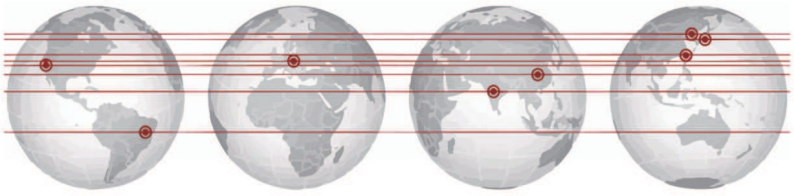

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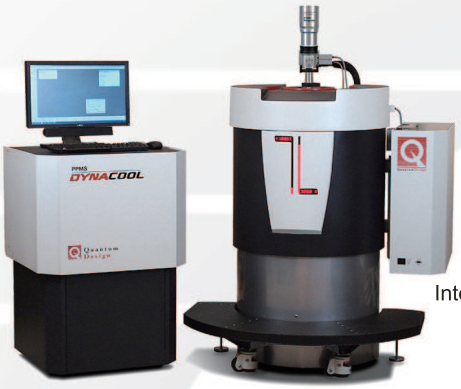

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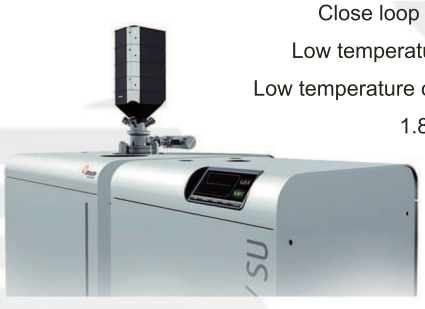

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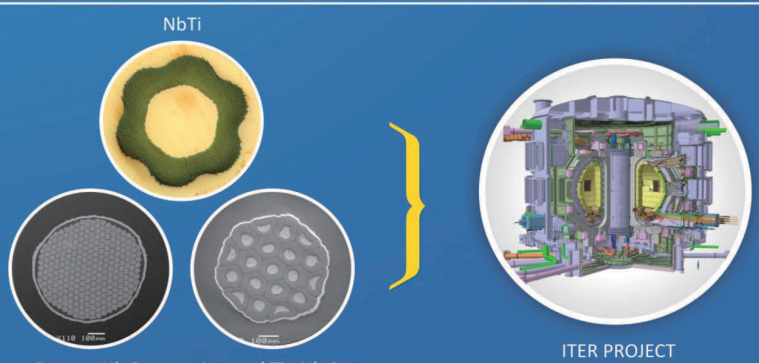
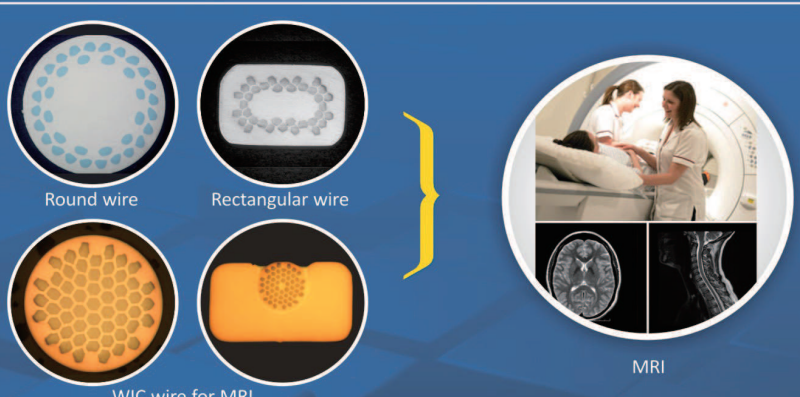


NbTi Superconducting Wires for Healthcare



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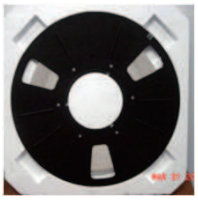
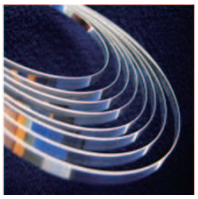
HTS BSCCO Wires

High Current Density Wire

Low Thermal Conductivity Wire



Insulated Wire
1000V (DC)



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Max. Tensile Stress	80MPa (95% Ic)
Min. Bending Radius	30mm (95% Ic)

HTS Applications

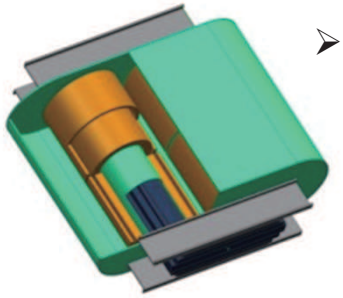
HTS Power Cable in City Grid

- 10-35kV, 1-2kA, 1-10 km, 1 or 3 phase

HTS Low Thermal Leakage Current Lead

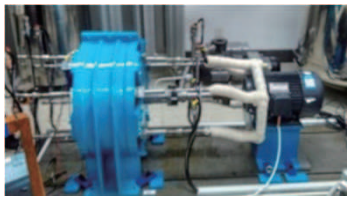
- Current Range: 200A – 20kA

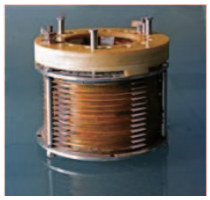
HTS Devices in Railway Transportation



- HTS transformer for high-speed train, 6.6MVA, international joint research program, No. 2016YFE0201200.

HTS Coils and Magnets, etc.





- Design, manufacture, test and technical support according to customer requirements.

Contact Information

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1. Welcome Message

The M^{2}S-2018 conference is the 12th in the series as an international event on superconductors and mechanisms of superconductivity held now every three years. The first conference took place in 1988 in Interlaken in the wake of the discovery of high temperature superconductivity by the Nobel Prize winners Johannes Georg Bednorz and Karl Alexander Müller. The conference has since taken place in Palo Alto (1989), Kanazawa (1991), Grenoble (1994), Beijing (1997), Houston (2000), Rio de Janeiro (2003), Dresden (2006), Tokyo (2009), Washington(2012) and Geneva (2015).

Superconductivity is a macroscopic quantum phenomenon that has been one of the most vibrant fields in condensed matter physics since its discovery in 1911. The discovery of high temperature cuprate superconductors and the iron-based superconductors has challenged the classical theories of condensed matter physics and opened a new chapter of strongly correlated electron systems. Superconductivity research has triggered ample opportunities in exploration of new materials, discovery of new phenomena, establishment of new theories and promising applications.

The aim of the Conference is to provide a platform for members of the international superconductivity community to report their latest results, exchange information and ideas, and foster collaborations. The Conference is dedicated to all aspects of basic superconductivity research in materials, mechanisms and phenomena of superconductivity, and its applications. The Conference will cover the following topics:

- Cuprate Superconductors
- Iron-Based Superconductors
- Heavy Fermion Superconductors
- Organic Superconductors
- Other Superconductors
- Topological Superconductors
- Mechanisms and Phenomenology of Superconductivity
- Applications
- Others

Beijing is the capital of China and the nation's political, cultural and educational center. The city's history dates back three millennia. It combines its ancient sites such as the Forbidden City and the Great Wall with modern architectures like the National Stadium and National Aquatics Center near the Beijing International Convention Center where the M^{2}S-2018 Conference will take place.

Welcome to M^{2}S-2018, and looking forward to seeing you in Beijing!

Xingjiang Zhou 

Zhongxian Zhao 

On behalf of the Organizing Committee

2. Committees

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Institute of Physics, Chinese Academy of Sciences, Beijing, China

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Institute of Physics, Chinese Academy of Sciences, Beijing, China

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·Xingjiang Zhou	*Institute of Physics, CAS, China*

3. Prizes & Awards

3.1 Heike Kamerlingh-Onnes Prize

The HEIKE KAMERLINGH-ONNES PRIZE was established in 2000 by the organizers of the International Conference on the Materials and Mechanisms of Superconductivity (M^2S) in honor of Prof. Heike Kamerlingh-Onnes who discovered superconductivity in 1911. It is awarded every three years at the M^2S 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 Euro and a certificate.

The 2018 Heike Kamerligh-Onnes Prize committee has decided that Prof. Yuji Matsuda (Kyoto University, Japan) and Prof. Louis Taillefer (Université de Sherbrooke, Canada) will share the 2018 Heike Kamerligh-Onnes Prize "For illuminating the nature of superconductivity in unconventional superconductors"

Prof. Yuji Matsuda: "For pioneering magneto-transport and microwave experiments on exotic superconductors"

Prof. Louis Taillefer: "For seminal magneto-transport studies of heavy fermion and cuprate superconductors"

Prize chair:
Dirk van der Marel – *University of Geneva, Switzerland*

Committee members:
Dirk van der Marel – *University of Geneva, Switzerland*
Aharon Kapitulnik – *Stanford University, USA*
Gabriel Aeppli – *Paul Scherrer Institute, Switzerland*
Mark Golden – *University of Amsterdam, Netherlands*
Eli Zeldov – *Weizmann Institute, Israel*

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 6,000 USD and a certificate.

The committee for the Bernd T. Matthias Prize has selected the recipient for 2018, Prof. Katsuya Shimizu of Osaka University.

Prof. Katsuya Shimizu: "For his discovery of superconductivity in nonsuperconducting elements under high pressures with a Tc up to 29K."

Prize chair:
Paul C.W. Chu – *University of Houston, USA*

Committee members:
Paul C.W. Chu – *University of Houston, USA*
Ivan Bozovic – *Brookhaven National Laboratory, USA*
Hideo Hosono – *Tokyo Institute of Technology, Japan*
Frank Steglich – *Max Planck Institute for Chemical Physics, Germany*
Z. X. Zhao – *Institute of Physics, Chinese Academy of Sciences, 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 (M^2S) 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 6,000 USD to the recipient and a certificate.

The 2018 John Bardeen Prize is awarded to Andrey V. Chubukov (University of Minnesota), Igor Mazin (Naval Research Lab), and Sebastian Doniach (Stanford University) "For sustained theoretical contributions to the field of unconventional and multi-orbital superconductivity and superconducting quantum fluctuations"

Prof. Andrey V. Chubukov: "For seminal contributions to the theory of unconventional superconductivity, including applications to the iron-based superconductors."

Prof. Igor Mazin: "For influential first-principles theoretical approaches to a broad class of multi-orbital superconductors, such as MgB_2 and the iron-based compounds."

Prof. Sebastian Doniach: "For pioneering work on Josephson junction coupled arrays and layered superconductors, quantum fluctuations in superconductors, and the possibility of a superconductor-insulator transition."

Prize chair:
Eduardo Fradkin – *University of Illinois, USA*

Committee members:
Eduardo Fradkin – *University of Illinois, USA*
Sue Coppersmith –*University of Wisconsin-Madison*, *USA*
Aharon Kapitulnik – *Stanford University, USA*
Subir Sachdev –*Harvard University, USA*
Joerg Schmalian – *Karlsruhe Institute of Technology, Germany*
John Tranquada –*Brookhaven National Laboratory, USA*
Hai-Hu Wen – *Nanjing University, China*

Remark:

The Prize Award Ceremony will take place on Tuesday Aug. 21st at conference Room 1 (Convention Hall No.1).

Welome to join the ceremony and congratulate the winners!

4. Supporting Organizations

1. Institute of Physics, Chinese Academy of Sciences (IOP, CAS)

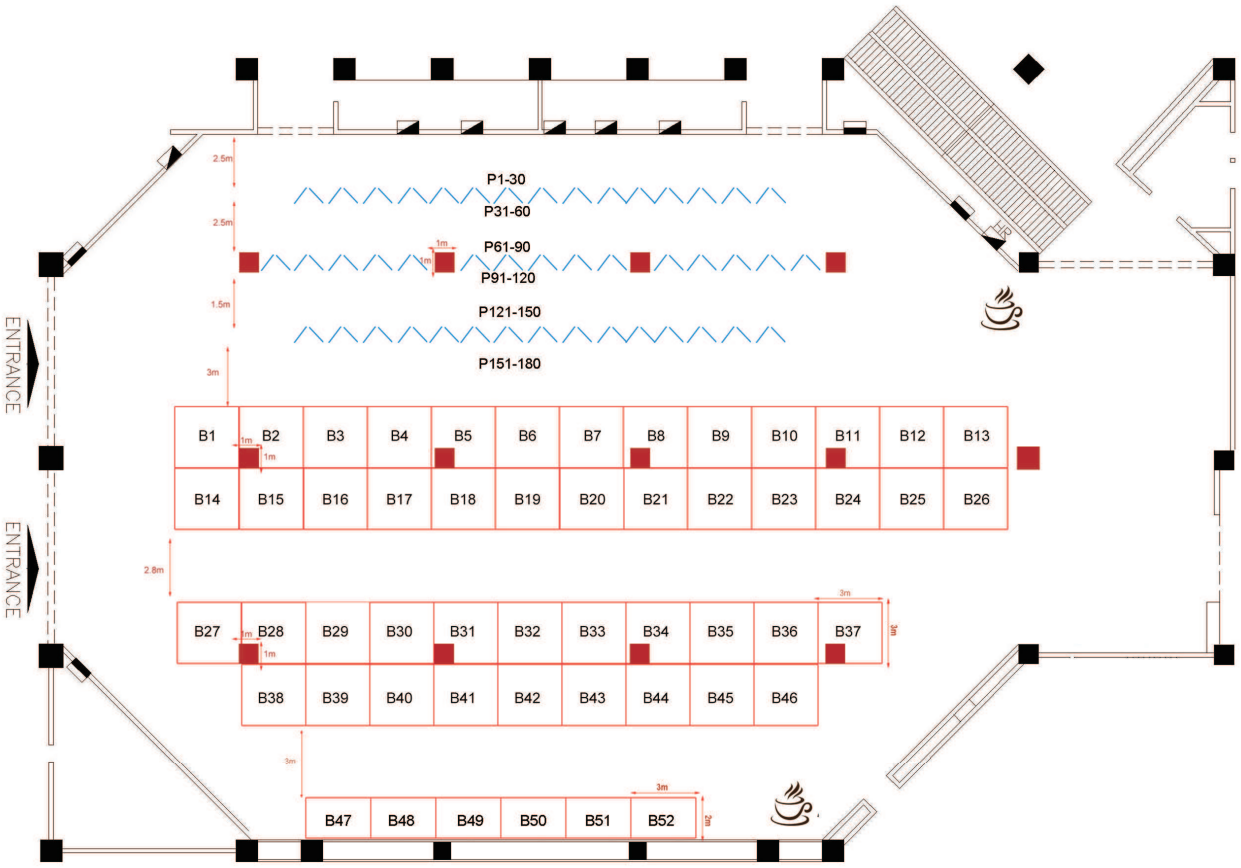
2. National Lab for Superconductivity (NLSC)

3. National Natural Science Foundation of China (NSFC)

4. Chinese Academy of Sciences (CAS)

5. The International Union of Pure and Applied Physics (IUPAP)

5. Sponsors & Exhibitors



4 号 会 议 厅
Concention Hall No.4

6. Conference Information

6.1 Registration

Registration fee for the conference includes admission to all technical sessions, entrance to the Exhibition and Welcome Reception, coffee/tea breaks, meals of lunch, as well as a copy of the Conference Program.

Because of financial constraints, we will not provide financial support for the invited speakers.

Registration Hour

Date	Aug. 19th (Sun.)	Aug. 20th (Mon.)	Aug. 21st (Tue.)	Aug. 22nd (Wed.)	Aug. 23rd (Thu.)	Aug. 24th (Fri.)
Time	14:00~20:00	07:30~18:00	08:30~18:00	08:30~18:00	08:30~18:00	08:30~12:30

Onsite Registration fee

Category	On-Site
Delegate	**CNY 5200**
Student(Retired Scientist)	**CNY 3900**
Accompanying Person	**CNY 2100**
Banquet	**CNY 200**

Receipt of registration

For Pre-registration, Chinese delegates can pick up their Invoice (发票) at Cashier counter at the Registration Desk from Aug. 21st to Aug. 23rd.

For On-site registration, the Invoice (发票) can be only sent by Express Mail after the conference (delivery cost will be paid by receiver).

For international delegates who need a receipt, please request from Information Counter at the Registration Desk.

Certificate of Attendance

If you need a certificate of attendance, please request from Information Counter at the Registration Desk.

Access to Abstracts to the web

All the abstracts (Oral and Poster) can be accessible via M^2S-2018 website at http://www.m2s-2018.com/.

Conference photos

There are several photographers to take photos during the conference. The group photo of conference can be downloaded via M^{2}S -2018 website at **http://www.m2s-2018.com/**.
Other photos can be accessible via the links provided on M^{2}S -2018 website.

Financial support for overseas traveling

Sponsored and funded by the International Union of Pure and Applied Physics (IUPAP), we will provide financial support to assist in the overseas traveling expenses for delegates coming to attend the M^{2}S -2018 conference from Developing Countries. Applicants should send the application, and a CV with the list of publications in last 5 years, to m2s2018@iphy.ac.cn before the deadline July. 15, 2018. The notice of application approval will be sent out before August 3, 2018. The support will be paid by cash to the approved applicants in the registration desk when the applicants attend the M^{2}S -2018 Conference.

6.2 Venue & Transportation

Beijing International Convention Center (BICC)

The Beijing International Convention Center is a well-known enterprise in Beijing. The Center is situated on the site of the Asian Games Village, a flourishing area of Beijing which has a collection of conference centers, businesses, shopping centers and entertainment venues. It is located on the North Fourth Ring road, just 20 kilometers from the International Capital Airport and 9 kilometers from the city center. The Center is also very close to the Olympic Games central area, including the Bird's Nest, Water Cube, Olympic Green Sightseeing Tower, etc.
For more information, please visit: http://www.bicc.com.cn/

Address in Chinese：北京市朝阳区北辰东路 8 号 北京国际会议中心

How to get to the Beijing International Convention Center (BICC)?

From Beijing Capital Airport to BICC

(1) By Taxi（出租车）

Beijing Capital International Airport provides taxi stations at the airport, so you can take a taxi from the airport to the conference venue.

Taxi Locations:

T1: Outside Gate 1 on F1

T2: Outside Gate 5 to 9 on F1

T3: Please refer to the signs inside the terminal building

Fare: About RMB 120 (USD 20 including toll). The cost is subject to change depending on actual traffic conditions.

(2) By Airport Shuttle Bus （机场巴士）

Take the shuttle bus Line 5 (destination: Zhongguancun 中关村) and get off at Asian Games Village (Anhui Bridge 亚运村站 安慧桥) station.

Fare: RMB 24 (USD 4)

(3) By Airport Express （机场快轨）

1. Airport Express (get off at Dongzhimen 东直门) – Special Public bus No.2 (get off at Anhuiqiaobei 安慧桥北)
2. Airport Express (get off at Sanyuanqiao 三元桥) - Subway 10 (get off at Beitucheng 北土城) - Subway 8 (get off at Olympic Sports Center 奥体中心)

From Railway Station to BICC

1. From Beijing Railway Station to BICC

1) Subway 2 (get off at GulouDajie 鼓楼大街) - Subway 8 (get off at Olympic Sports Center 奥体中心)

2) Subway 2 (get off at Yonghegong 雍和宫) – Subway 5 (get off at Huixinxijie Beikou 惠新西街北口)

3) Special Public Bus No. 2 (get off at Anhuiqiaobei 安慧桥北)

2. From Beijing West Railway Station

1) Subway 9 (get off at Baishiqiaonan 白石桥南) - Subway 6 (get off at Nanluoguxiang 南锣鼓巷) - Subway 8 (get off at Olympic Sports Center 奥体中心)

2) Public Bus No.387 (get off at Anhuiqiao Bei 安慧桥北)

3. From Beijing South Railway Station

1) Subway 14 (get off at Puhuangyu 蒲黄榆) – Subway 5 (get of at Huixinxijie Beikou 惠新西街北口) - Public Bus 983/658/386/490 (get off Yayuncun 亚运村)

2) Subway 4 Daxing Line (get off at Xuanwumen 宣武门) – Subway 2 (get off at Guloudajie

鼓楼大街) – Subway 8 (get off at Olympic Sports Center 奥体中心)

3) Subway 4 Daxing line (get off at Pinganli 平安里) - Subway 6 (get off at Nanluoguxiang 南锣鼓巷) – Subway 8 (get off at Olympic Sports Center 奥体中心)

Remarks:

1. You may change money at the Banks or Money Exchange at the airport beforehand since you need Chinese money (RMB) to pay for the means of transportation.

2. There will be quite some walk with ups and downs especially at the subway station for transfers if you choose to go to BICC by either airport shuttle, airport express or subway. Our previous conference delegates complained a lot about the inconveniences caused by taking airport express and subway, so *it is preferred that you go to BICC by taxi*.

6.3 Accommodations

1. Beijing Continental Grand Hotel (北京五洲大酒店) ★★★★

http://www.bcghotel.com/English/

Tel: 0086 10 8498 0105 Email: yudingbu@bicc.com.cn

2. North Star Huiyuan Prime Hotel (北辰汇园酒店公寓贵宾楼) ★★★★

http://www.huiyuangongyu.com.cn (Reservation Code: 123)

Tel: Mr. Zhou Bin 186 1125 0221 Email: zhoubin8522@qq.com

3. North Star Yayuncun Hotel (北辰亚运村宾馆) ★★★

http://www.huiyuangongyu.com.cn (Reservation Code: 123)

Tel: Mr. Zhou Bin 186 1125 0221 Email: zhoubin8522@qq.com

4. V-Continent Beijing Parkview Wuzhou Hotel (北辰五洲皇冠国际酒店) ★★★★★

Tel: 0086 10 64817138 Email: reservation@v-continent.com

5. Celebrity International Grand Hotel (北京名人国际大酒店) ★★★★★

Tel: 0086 10 5865 1166-6116 Email: 13581773237@126.com

6. North Star Yuanchenxin International Hotel (北辰元辰鑫国际酒店) ★★★★

http://www.ycxhotel.com/ (Reservation Code: 818)

Tel: 0086 10 82250362 OR 15910973379 Email: zhaoguorong_1314@126.com

6.4 Reception, Banquet & Lunch

Welcome Reception

There will be a Welcome Reception. Come and mingle with your old and new friends!

- Date and Time: Sunday, Aug. 19th / 18:00-20:00
- Place: Conference Room 1 (Convention Hall No. 1)

Conference Banquet (Tickets Required)

We prepare a banquet for you to discuss among your colleagues and coworkers. We will have a meal along with a few Chinese traditional performances. The banquet requires a ticket (CNY 200), you can pay when you register online or purchase the ticket onsite.

- Date and Time: Wednesday, Aug. 22nd / 19:00-21:00
- Place: Conference Room 1 (Convention Hall No. 1)

Lunch (Tickets Required)

Registration fee for the conference includes daily lunch:

- Date and Time: Aug. 20th –Aug. 23rd, 12:05-14:00
- Place: Ballroom on 2F of Beijing Continental Grand Hotel (五洲大酒店二层), with connecting corridor to BICC from 2F (会场二层有连廊通往五洲大酒店）

6.5 WiFi

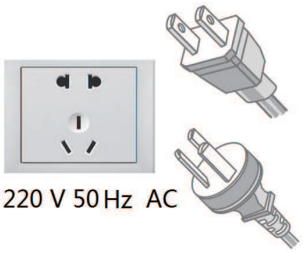
Free WiFi is available for all participants at the conference center.

Wifi Network: *BICC-WLAN*

No password is required.

6.6 Electricity

The standard voltage in China is 220 V, 50 Hz, AC. The outlet is three-pronged and you are recommended to bring your own adaptor.



6.7 Emergency Numbers

Police: 110 Ambulance: 120 Fire: 119 Traffic Accident: 122 Directory Inquiry: 114

6.8 Disclaimer

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.

Medical Service and Healthy Insurance

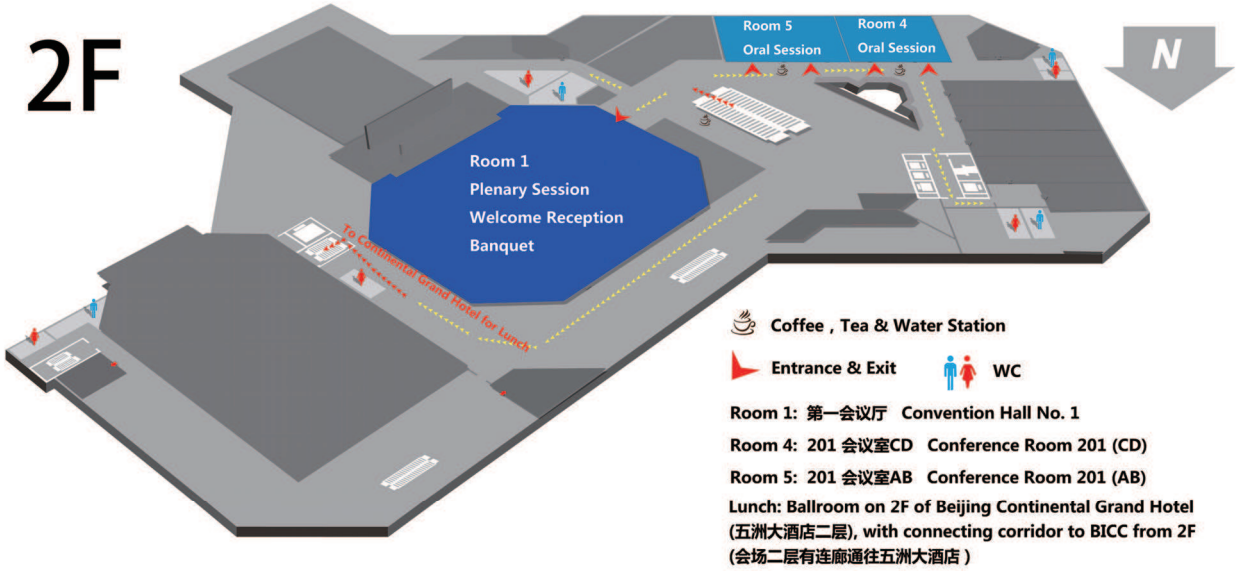
Neither the organization nor the conference agency is responsible for individual medical, travel or personal insurance. Delegates are requested to arrange their own travel and health insurance. Delegates who are currently on medication should bring an adequate medical supply since the medication may not be available locally. Please inform the organizers in advance should you have major medical concerns. Delegates are responsible for their own expenses incurred from local medical services. The organizers cannot assume liability for changes in the program due to external circumstances.

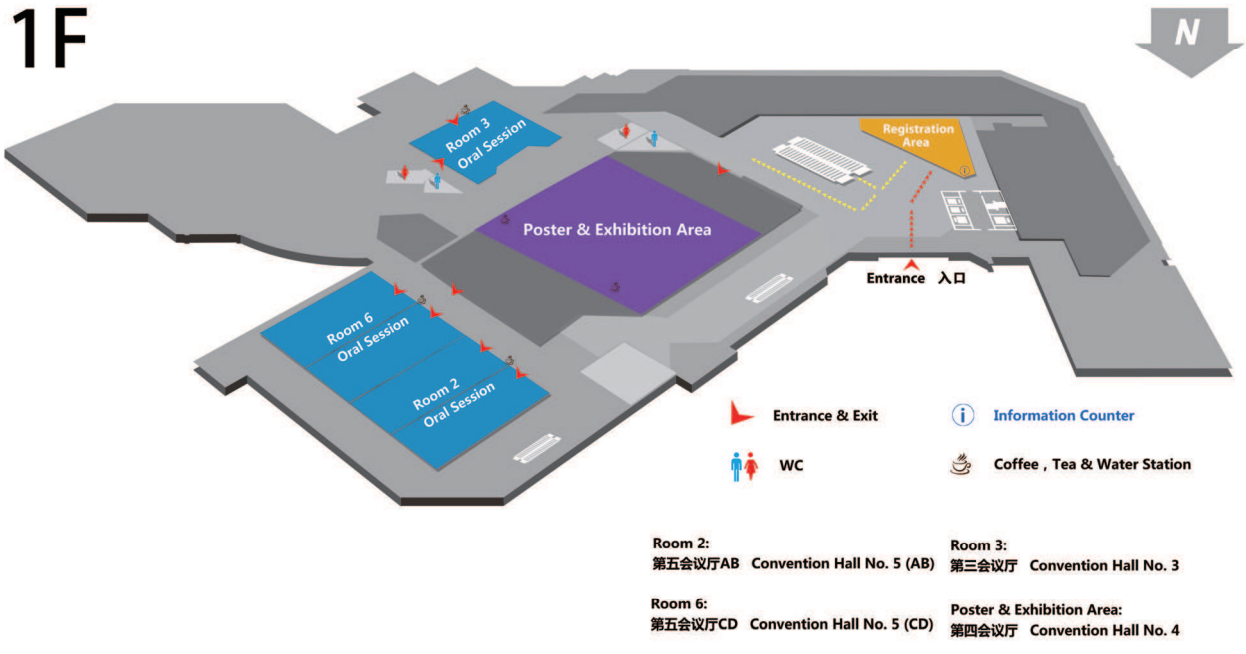
6.9 Local contacts

Conference : Email: m2s2018@iphy.ac.cn Tel.: +86-10-82649167

Hotel and Tours : Email: m2s2018@chinastargroup.com Tel.: +86-10-8456 2890-216

BICC Conference Floor Plans





7. Plenary Speakers

Yuji Matsuda

Kyoto University, Japan

Title: Pseudogap in Cuprates, Thermodynamic Evidence for Nematic Phase Transition

Schedule: 09:00-9:40 Aug. 20th (Mon.)

Dunghai Lee

University of California, Berkeley, USA

Title: High-Temperature Superconductivity in Iron Chalcogenides

Schedule: 09:40-10:20 Aug. 20th (Mon.)

Ivan Bozovic

Brookhaven National Laboratory and Yale University, USA

Title: What Makes Cuprate Superconductors so Amazing?

Schedule: 10:45-11:25 Aug. 20th (Mon.)

Andrew Cleland

University of Chicago, USA

Title: Superconducting Qubits Enable Quantum Control of Surface Wave Phonons

Schedule: 11:25-12:05 Aug. 20th (Mon.)

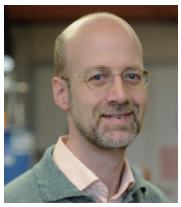
Zhi-Xun Shen

Stanford University, USA

Title: Cooperative Interactions as a Route to High Temperature Superconductivity

Schedule: 08:30-09:10 Aug. 21st (Tue.)

Bernhard Keimer



MPI for Solid State Research, Stuttgart, Germany

Title: Scattering from High-Temperature Superconductors: New Insights and Perspectives

Schedule: 09:10-09:50 Aug. 21st (Tue.)

J. C. Seamus Davis

Cornell University, USA

Title: Discovery and Exploration of the Cuprate Pair Density Wave State

Schedule: 08:30-09:10 Aug. 22nd (Wed.)

Frank Steglich

MPI for Chemical Physics of Solids – Dresden, Germany

Title: Quantum Criticality and Unconventional Superconductivity in Heavy Fermions

Schedule: 09:10-09:50 Aug. 22nd (Wed.)

Pablo Jarillo-Herrero

Massachusetts Institute of Technology, USA

Title: Magic Angle Graphene: a New Platform for Strongly Correlated Physics

Schedule: 08:30-09:10 Aug. 23rd (Thu.)

Louis Taillefer

University of Sherbrooke, Canada

Title: The Pseudogap Critical Point of Cuprate Superconductors

Schedule: 09:10-09:50 Aug. 23rd (Thu.)

Pingxiang Zhang

Northwest Institute for Nonferrous Metal Research, China

Title: Progress on Superconducting Materials for High-Field Application in China

Schedule: 10:25-11:05 Aug. 24th (Fri.)

Erez Berg

University of Chicago, USA

Title: Progress on Quantum Critical Metals

Schedule: 11:05-11:45 Aug. 24th (Fri.)

Xianhui Chen

University of Science and Technology of China, China

Title: Tunable Superconductivity and Phase Transitions by Field Effect Transistor

Schedule: 11:45-12:25 Aug. 24th (Fri.)

8. Scientific Programs

Information for Presenter and Chair

Oral Sessions

All invited and contributed speakers must report to the session chairs prior to the beginning of the session.
The allocation for each Plenary presentation is 40 minutes.
a) 35 minutes for the presentation
b) 5 minutes for Q & A

The allocation for each Invited presentation is 20 minutes.
a) 15 minutes for the presentation
b) 5 minutes for Q & A

The allocation for each Contributed presentation is 15 minutes.
a) 12 minutes for the presentation
b) 3 minutes for Q & A

Guideline for Oral Sessions

The Chair of each oral session is expected to arrive at the session room at least 10 minutes prior to the session.

- Session rooms will be ready with laptop computers installed with MS PowerPoint, which the speakers are encouraged to use for their presentations in order to avoid delays in schedule.
- The speakers are advised to bring their PowerPoint presentation files on USB memory sticks AND be also ready with a backup version of their presentations. Please transfer the file to the laptop computer in the session room during the break between the sessions
- If you are a Mac user, please bring your Mac-to-VGA adapter.
- Speakers should arrive in the session room 15 minutes BEFORE the start of their sessions to report to the session chair.

Guideline for Poster Sessions

Posters are located on Level 1 (exhibition hall). Poster sessions are scheduled in the noon from 12:05 to 14:00 during lunch time, and changed every day.

Please check the program for details on the session times. Presenting authors of posters are requested to stand by their posters and discuss with participants.

Poster Size: portrait orientation only, pre-printed sheet size 90 cm [35 in] (width) x 120 cm [47 in] (height).
Set up and take down time:

Poster Presentation Date	Set up after	Take down before
Monday, August 20th	07:30 on Monday	18:00 on Monday
Tuesday, August 21st	07:30 on Tuesday	18:00 on Tuesday
Wednesday, August 22nd	07:30 on Wednesday	18:00 on Wednesday
Thursday, August 23rd	07:30 on Thursday	18:00 on Thursday

* If you do not take down your poster after 18:00 at the presentation day, your posters will be disposed by conference organizers.

Conference organizers will provide each presenter with a board for the poster, please look for your Board ID Numbers. Authors will be responsible to do printing and put up/take down the poster. Both double-side adhesive and scissors are available onsite. And the volunteers will assist you in putting up posters. So please feel free to go to them for help.

During the poster sessions, best posters will be selected based on the criteria of scientific interest and quality of the presentation. The Best Poster Award, consisting of bonus and a certificate, will be given to the presenting authors during the closing session of M^{2}S-2018.

Room numbers

Room numbers for M^{2}S-2018	BICC conference room	Level of BICC
Room 1	Convention Hall No. 1	2F
Room 2	Convention Hall No. 5(A+B)	1F
Room 3	Convention Hall No. 3	1F
Room 4	Conference Room 201 (C+D)	2F
Room 5	Conference Room 201 (A+B)	2F
Room 6	Convention Hall No. 5(C+D)	1F
Poster & Exhibition area	Convention Hall No. 4	1F

8.1 Program at a glance

Sunday, August 19th, 2018

14h00 20h00	**Registration**
18h00 20h00	**Welcome Reception (Room 1)**

Monday, August 20th, 2018

07h30 08h45	**Registration**				
	Room 1				
08h45 09h00	**Opening**				
09h00 09h40	**Plenary 1** Yuji Matsuda				
09h40 10h20	**Plenary 2** Dunghai Lee				
	Break 25 minutes				
10h45 11h25	**Plenary 3** Ivan Bozovic				
11h25 12h05	**Plenary 4** Andrew Cleland				
12h05 14h00	**Poster Session 1 & Lunch**				
	Room 2	**Room 3**	**Room 4**	**Room 5**	**Room 6**
14h00 15h55 115 mins	**Mo-S01** **Cuprates** **SC State-1** Andrea Damascelli P. Marchetti Setsuko Tajima Yuanbo Zhang Alessandra Lanzara Eduardo Marino	**Mo-S02** **IBS** **Topological** Wei Li Shik Shin Hong Ding Peter Johnson Ziqiang Wang Gang Xu	**Mo-S03** **2D SC** Ding Zhang Yoshihiro Iwasa Jian Wang E. Baggio-Saitovitch Shuyun Zhou Adolfo Avella	**Mo-S04** **SC-Reduced Symmetry** Naoto Nagaosa Manfred Sigrist Huiqiu Yuan Ernst Bauer Deepak Singh	**Mo-S05** **High T_c Mechanism** Bruce Normand Jiangping Hu José Lorenzana Mark Golden Masatoshi Imada Michael Reznikov
	Break 20 minutes				
16h15 18h20 125 mins	**Mo-S06** **Cuprates** **Elect. State-1** Daniel Dessau Atsushi Fujimori Changyoung Kim Peter Hirschfeld Masafumi Horio Yigui Zhong Marta Zonno	**Mo-S07** **IBS** **10th Anniversary** Hideo Hosono Andrey Chubukov Paul C.W. Chu Xiaoli Dong Lili Wang Guanghan Cao	**Mo-S08** **Devices** Eli Zeldov Xiaoming Xie Stephen Remillard Junlan Zhong Alejandro Silhanek Yosef Yeshurun Kaveh Delfanazari	**Mo-S09** **$SrTiO_3$ & Iridates** Veronique Brouet Kamran Behnia Siddharth Saxena Ilya Sochnikov Yuefeng Nie Yasuhide Tomioka	**Mo-S10** **Mott Physics-1** Yingying Peng Guang-Ming Zhang Jian-Xin Li Zheng-Yu Weng Kazuhiro Kuboki

Tuesday, August 21st, 2018

	Room 1				
08h30 09h10 09h10 09h50	**Plenary 5** Zhi-Xun Shen **Plenary 6** Bernhard Keimer				
	Break 20 minutes				
	Room 2	**Room 3**	**Room 4**	**Room 5**	**Room 6**
10h10 12h05 115 mins	**Tu-S11** **Cuprates** **SC State-2** Amit Keren Martin Greven Dirk Van der Marel Peter Armitage John Tranquada	**Tu-S12** **IBS** **Elect. State-1** Xingjiang Zhou Donghui Lu Sergey Borisenko Yunkyu Bang Fengmiao Li Dong Qian	**Tu-S13** **Topological** **State-1** Yi Zhou Wan Kyu Park Congjun Wu Ryotaro Arita Ching-Kai Chiu	**Tu-S14** **Ruthenates** Qiang-Hua Wang Andrew Mackenzie Ying Liu Stuart Brown Yoshiteru Maeno Siham Benhabib	**Tu-S15** **SC General** **-Failed SC** Harold Hwang Steven Kivelson Valerii Vinokour Aviad Frydman
12h05 14h00	**Poster Session 2 & Lunch**				
	Room 2	**Room 3**	**Room 4**	**Room 5**	**Room 6**
14h00 16h00 120 mins	**Tu-S16** **Loop** **Current** Chandra Varma Peter Abbamonte Philippe Bourges Lei Shu Stephen Hayden Han-Yong Choi	**Tu-S17** **IBS** **Elect. State-2** Shuheng Pan Tetsuo Hanaguri Abhay Pasupathy Tadashi Machida Zbigniew Bukowski D.T. Adroja	**Tu-S18** **Vortex** **Matter-1** Judy Wu Roland Willa Yoram Dagan Victor Moshchalkov Masaru Kato Morten Eskildsen	**Tu-S19** **New SC** **Materials-1** Jun Zhao Shancai Wang Kui Jin Ivan Schuller Nicholas Plumb Xuan Shen	**Tu-S20** **SC General** **-Nematic States** Wei Bao Hiroshi Kontani Zhiping Yin Liangjian Zou Edoardo Trabaldo Takeshi Mizushima
	Break 15 minutes				
16h15 18h05 110 mins	**Tu-S21** **Cuprates** **Elect. State-2** Yayu Wang Yi Yin Christoph Renner Wei Ku Takayuki Kawamata Tadashi Adachi	**Tu-S22** **IBS-** **Orbital** Girsh Blumberg Yan Zhang Qimiao Si Laura Fanfarillo Ming Yi	**Tu-S23** **Electrical** **Applications-1** Chuanbing Cai Xavier Obradors Xiaolin Wang David Larbalestier Jianyi Jiang Xiuhua Song	**Tu-S24** **New SC** **Materials-2** Xiaolong Chen Weiqiang Yu Robert Cava Malte Grosche Shinichi Ishiguri	**Tu-S25** **SC-** **Mixed Views** Hong Yao Eun-Ah Kim S. Doniach Yurii Proshin
18h05 18h30	Break 25 minutes				
18h30 20h00	**Prize Award Ceremony (Room 1)** **John Bardeen Prize winners 2018** **Heike Kamerlingh-Onnes Prize winners 2018** **Bernd T. Matthias Prize winners 2018**				

Wednesday, August 22nd, 2018

	Room 1				
08:30 09:10 09:10 09:50	**Plenary 7** J. C. Seamus Davis **Plenary 8** Frank Steglich				
	Break 20 minutes				
	Room 2	**Room 3**	**Room 4**	**Room 5**	**Room 6**
10h10 12h00 110 mins	**We-S26** **Cuprates** **Charge Order-1** Matthieu Le Tacon Shiping Feng Johannes Zaanen Takami Tohyama Evandro De Mello Dror Orgad	**We-S27** **IBS** **Elect. State-3** Luca De Medici Ming Shi Amalia Coldea Takahiro Hashimoto Chi Ming Yim Jose Rodriguez	**We-S28** **Electrical** **Applications-2** Werner Prusseit Yanwei Ma Zhixiang Shi Ying Xin Eisterer Michael Tsuyoshi Tamegai	**We-S29** **Heavy** **Fermion-1** Yi-feng Yang John Saunders Dariusz Kaczorowski Tanmoy Das Joseph Betouras Kenji Ishida	**We-S30** **SC General** **-Excited State** Wanzheng Hu Nan-Lin Wang Dirk Manske Thomas Devereaux Emanuele Dalla Torre
12h05 14h00	**Poster Session 3 & Lunch**				
	Room 2	**Room 3**	**Room 4**	**Room 5**	**Room 6**
14h00 15h45 105 mins	**We-S31** **Cuprates** **Normal State-1** Cyril Proust Dragana Popovic Neven Barisic Greg Boebinger Bastien Michon	**We-S32** **IBS** **Materials-1** Jinguang Cheng Shiyan Li Akira Iyo Hechang Lei Yue Sun Yoji Koike	**We-S33** **Vortex** **Matter-2** Hermann Suderow Johann Blatter Gabriela Pasquini Marcin Konczykowski Taichiro Nishio Vadim Geshkenbein	**We-S34** **Heavy** **Fermion-2** H. Von Loehneysen Filip Ronning Philip Moll Ryusuke Ikeda Soon-Gil Jung	**We-S35** **Phase Diagram** **&Transition** Shiliang Li C. Panagopoulos Meigan Aronson Fa Wang Lev Mazov
	Break 30 minutes				
16h15 18h10 115 mins	**We-S36** **Cuprates** **Normal State-2** Alexei Tsvelik Qijin Chen Antony Carrington Richard Greene Milan Allan	**We-S37** **IBS** **Dynamics-1** Christian Bernhard Xianggang Qiu Rudolf Hackl Leonardo Degiorgi Jimin Zhao	**We-S38** **Topo. State** **-Nematic** Guo-qing Zheng Hai-Hu Wen Donglai Feng Shingo Yonezawa Joerg Schmalian Antheunis De Visser	**We-S39** **SC-** **Light Element** Warren Pickett Zhong-Yi Lu Kosmas Prassides Katsuya Shimizu Guoying Gao	**We-S40** **SC-Common** **Features** Daoxin Yao George Sawatzky Jeffery Tallon Garnet Kin-Lic Chan Oleg Dolgov
	Break 50 minutes				
19h00 21h00	**Banquet (Room 1)**				

Thursday, August 23rd, 2018

	Room 1				
08:30 09:10 09:10 09:50	**Plenary 9** Pablo Jarillo-Herrero **Plenary 10** Louis Taillefer				
	Break 20 minutes				
	Room 2	**Room 3**	**Room 4**	**Room 5**	**Room 6**
10h10 12h05 115 mins	**Th-S41** **Cuprates** **Pseudogap** Tao Li Bastien Loret Safarali Djumanov Eric Andersson Eun-Gook Moon Robert Markiewicz	**Th-S42** **IBS** **Nematicity-1** Clifford Hicks Pengcheng Dai Tao Wu T. Shibauchi Tong Zhang Rui Zhou	**Th-S43** **Topo.State** **-Majorana** Jinfeng Jia Rolf Walter Lortz Fuchun Zhang Qinglin He Ali Yazdani Yang Peng	**Th-S44** **SC-Twisted** **Graphene** Leni Bascones Philip Phillips T. Takahashi Fanqi Yuan Fan Yang Artem Sboychakov	**Th-S45** **SC-** **New Insights** Jorge E. Hirsch Xin-Cheng Xie Ulrich Welp Vidya Madhavan Hiroyasu Koizumi
12h05 14h00	**Poster Session 4 & Lunch**				
	Room 2	**Room 3**	**Room 4**	**Room 5**	**Room 6**
14h00 15h55 115 mins	**Th-S46** **Cuprates** **PDW** Patrick Lee Ting-Kuo Lee Eduardo Fradkin John Wei Stephen Edkins Edwin Huang	**Th-S47** **IBS** **Dynamics-2** Yuan Li Markus Braden Joerg Fink Gabriel Kotliar A. Charnukha Huiqian Luo	**Th-S48** **2D SC** **Interface** Can-Li Song Minghu Pan Jean-Marc Triscone Jiacai Nie Yun-Yi Pai Dawei Shen	**Th-S49** **New SC** **Materials-3** Liling Sun Minghu Fang Carmen Almasan Kazutaka Kudo Danfeng Li	**Th-S50** **Mott** **Physics-2** Johan Chang Arun Bansil Yan Chen Tao Xiang A.-M. S. Tremblay Wei Wu
	Break 20 minutes				
16h15 18h25 130 mins	**Th-S51** **Cuprates** **Charge Order-2** Jennifer Hoffman Marc-Henri Julien David Hawthorn Wei-Sheng Lee G. Ghiringhelli Shinji Kawasaki Alex Frano	**Th-S52** **IBS** **Materials-2** C. Meingast R. Fernandes Harald Jeschke Mykola Cherpak Vadim Grinenko Gang Wang	**Th-S53** **Topological** **State-2** Li Lu Markus Kriener Zhu-An Xu Lu Li Philip Brydon Akito Daido Alireza Akbari	**Th-S54** **Cr-Based SC** **& FM SC** Jianlin Luo Zhi-An Ren Kazuhiko Kuroki Zengwei Zhu Jean-Pascal Brison	**Th-S55** **BCS-BEC** **Crossover** Kazushi Kanoda Yuta Mizukami Amit Kanigel Kyosuke Adachi Mats Granath Yuji Nakagawa

Friday, August 24th, 2018

	Room 2	Room 3	Room 4	Room 5	Room 6
8h30 10h05 95 mins	**Fr-S56** **Cuprates Dynamics** Marco Grilli Fulvio Parmigiani S. Sebastian Doohee Cho Igor Vinograd	**Fr-S57** **IBS Nematicity-2** Bernd Buechner Kyoko Ishizaka Rong Yu Shigeru Kasahara	**Fr-S58** **2D SC TMD** Sean Hartnoll Vivek Aji Matteo Calandra Dragan Mihailovic Qihong Chen	**Fr-S59** **SC-Organic** Erio Tosatti C. Marrache-Kikuchi Xiaojia Chen Tomas Samuely Katsumi Tanigaki	**Fr-S60** **New Developments** Changqing Jin Shin-ichi Uchida Yasutomo Uemura Ruihua He
	Break 20 minutes				
	Room 1				
10h25 11h05	**Plenary 11** Pingxiang Zhang				
11h05 11h45	**Plenary 12** Erez Berg				
11h45 12h25	**Plenary 13** Xianhui Chen				
12h25 12h45	**Closing, Best Poster Awards and Next Congress**				

Scientific Presentation Time:

Plenary Talks: 40 mins (35 mins talk + 5 mins Q&A)
Invited Talks: 20 mins (15 mins talk + 5 mins Q&A)
Contributed Talks: 15 mins (12 mins talk + 3 mins Q&A)

8.2 Detailed Program

Monday, August 20th, 2018

07:30-08:45	**Registration**
08:45-09:00	**Opening Ceremony** **Room 1** *Chair: Fuchun Zhang, Univ. of CAS, China*
09:00-09:40	**Plenary 1: Pseudogap in Cuprates, Thermodynamic Evidence for Nematic Phase Transition** **Room 1** *Yuji Matsuda, Kyoto Univ., Japan* *Chair: Fuchun Zhang, Univ. of CAS, China*
09:40-10:20	**Plenary 2: High-Temperature Superconductivity in Iron Chalcogenides** **Room 1** *Dunghai Lee, Univ.of California, Berkeley, USA* *Chair: Fuchun Zhang, Univ. of CAS, China*
10:20-10:45	**Coffee Break 25 minutes**
10:45-11:25	**Plenary 3: What Makes Cuprate Superconductors so Amazing?** **Room 1** *Ivan Bozovic, Brookhaven Nat. Lab. and Yale Univ.* *Chair: Tao Xiang, Inst. of Physics, CAS, China*
11:25-12:05	**Plenary 4: Superconducting Qubits Enable Quantum Control of Surface Wave Phonons** **Room 1** *Andrew Cleland, Univ. of Chicago* *Chair: Tao Xiang, Inst. of Physics, CAS, China*
12:05-14:00	**Poster Session 1: Materials & Applications / Lunch**
14:00-15:55	**Parallel Oral Sessions : Mo-S01 – Mo-S05 Room 2-6**
15:55-16:15	**Coffee Break 20 minutes**
16:15-18:20	**Parallel Oral Sessions : Mo-S06 – Mo-S10 Room 2-6**

Mon. Aug. 20th 14:00-15:55	Session: Mo-S01 Cuprates SC State-1 Room 2 *Chair: Daniel Dessau, Univ. of Colorado Boulder, USA*
Invited 14:00-14:20	**Collapse of superconductivity in cuprates via ultrafast quenching of phase coherence** *Andrea Damascelli, Univ. of British Columbia, USA*
Invited 14:20-14:40	**The attraction between antiferromagnetic quantum vortices as origin of superconductivity in hole-doped cuprates** *Pieralberto Marchetti, Univ. di Padova, Italia*
Invited 14:40-15:00	**Unusual superconducting gap in the cuprates: The Raman study on Bi2223** *Setsuko Tajima, Osaka Univ., Japan*
Invited 15:00-15:20	**High Temperature Superconductivity in Monolayer $Bi_2Sr_2CaCu_2O_{8+\delta}$** *Yuanbo Zhang, Fudan Univ., China*
Invited 15:20-15:40	**TBA** *Alessandra Lanzara, Lawrence Berkeley National Lab, USA*
Contributed 15:40-15:55	**The Superconducting Phase Diagram of High-T_c Cuprates** *Eduardo Marino, Federal Univ. of Rio de Janeiro, Brazil*
Mon. Aug. 20th 14:00-15:55	**Session: Mo-S02 IBS Topological Room 3** *Chair: Joerg Schmalian, Karlsruhe Inst. of Techn. , Germany*
Invited 14:00-14:20	**Stripes and Topological States in FeSe Film** *Wei Li, Tsinghua Univ., China*
Invited 14:20-14:40	**High resolution laser-ARPES on topological superconductivity on surface** *Shik Shin, Univ. of Tokyo, Japan*
Invited 14:40-15:00	**Topological superconductivity and Majorana bound state in Fe-based superconductors** *Hong Ding, Inst. of Physics, CAS, China*
Invited 15:00-15:20	**Topology meets High T_c Superconductivity in the $FeTe_{1-x}Se_x$ family** *Peter Johnson, Brookhaven National Lab, USA*
Invited 15:20-15:40	**Quantum Anomalous Vortex and Majorana Zero Mode in $FeTe_{1-x}Se_x$ Superconductors** *Ziqiang Wang, Boston College, USA*

Contributed 15:40-15:55	**Topological Superconductivity on the Surface of Fe-Based Superconductors** *Gang Xu, Huazhong Univ. of Sci. and Tech., China*
Mon. Aug. 20th 14:00-15:55	**Session: Mo-S03 2D SC** **Room 4** *Chair: Lili Wang, Tsinghua Univ., China*
Invited 14:00-14:20	**Two-dimensional superconductivity in few-layer stanene** *Ding Zhang, Tsinghua Univ., China*
Invited 14:20-14:40	**Quantum phase transitions in gate-induced 2D superconductivity** *Yoshihiro Iwasa, Univ. of Tokyo, Japan*
Invited 14:40-15:00	**Superconductivity in Topological Semimetals** *Jian Wang, Peking Univ., China*
Invited 15:00-15:20	**Superconductivity in Bi/Ni bi-layer system** *Elisa Baggio-Saitovitch, Centro Brasileiro de Pesq. Físi. , Brasil*
Invited 15:20-15:40	**Coexistence of both Ising and Rashba type spin textures in monolayer $NbSe_2$** *Shuyun Zhou, Tsinghua Univ., China*
Contributed 15:40-15:55	**Unconventional 2D Superconductors: The Out-Of-Equilibrium Response to A Laser Pulse** *Adolfo Avella, Univ. degli Studi di Salerno, Italy*
Mon. Aug. 20th 14:00-15:35	**Session: Mo-S04 SC-Reduced Symmetry** **Room 5** *Chair: Siddharth Saxena, Univ. of Cambridge., UK*
Invited 14:00-14:20	**Nonreciprocal charge transport in noncentrosymmetric superconductors** *Naoto Nagaosa, Univ. of Tokyo, Japan*
Invited 14:20-14:40	**Fit to Superconduct? - Cooper Pairing in Materials with reduced Symmetry** *Manfred Sigrist, ETH Zurich, Switzerland*
Invited 14:40-15:00	**Superconductivity with broken time reversal symmetry** *Huiqiu Yuan, Zhejiang Univ., China*
Invited 15:00-15:20	**Superconductivity in Weakly Correlated Noncentrosymmetric Systems** *Ernst Bauer, Technische Univ. Wien, Austria*

Contributed 15:20-15:35	**Unconventional Superconductivity in noncentrosymmetric superconductors** *Deepak Singh, ISIS Neutron and Muon Source, UK*
Mon. Aug. 20th 14:00-15:55	**Session: Mo-S05 High T_c Mechanism** **Room 6** *Chair: Jian-Xin Li, Nanjing Univ., China*
Invited 14:00-14:20	**Theoretical Analysis of the Energy-, Momentum- and Temperature-Dependent Quasiparticle Self-Energies in BSCCO Superconductors** *Bruce Normand, Paul Scherrer Inst., Switzerland*
Invited 14:20-14:40	**Genes of unconventional high temperature superconductors** *Jiangping Hu, Inst. of Physics, CAS, China*
Invited 14:40-15:00	**Mimicking Cupates with Silver and Fluorine** *José Lorenzana, CNR, Italy*
Invited 15:00-15:20	**Experimental tests of the AdS-CFT description of cuprate strange metals** *Mark Golden , Univ. of Amsterdam , Netherlands*
Invited 15:20-15:40	**Dark Fermion Theory and Ab Initio Studies on Cuprate Superconductors** *Masatoshi Imada, Univ. of Tokyo, Japan*
Contributed 15:40-15:55	**Zero Energy States at a Normal--Cuprate-Superconductor Interface Probed by Shot Noise** *Michael Reznikov, Technion-Israel Inst. of Tech., Israel*
15:55-16:15	**Coffee Break 20 minutes**
Mon. Aug. 20th 16:15-18:20	**Session: Mo-S06 Cuprates Elec. State-1** **Room 2** *Chair: Andrea Damascelli, Univ. of British Columbia, USA*
Invited 16:15-16:35	**Electronic Self-Energies in Cuprates Beyond EDCs and MDCs – Self-Energy Conversion and Positive Feedback on the Pairing Interactions** *Daniel Dessau, Univ. of Colorado Boulder, USA*
Invited 16:35-16:55	**Effects of Reduction Annealing on Electron-Doped Cuprates Revealed by ARPES and Core-Level Spectroscopy** *Atsushi Fujimori, Univ. of Tokyo, Japan*

Invited 16:55-17:15	**Electron Number-Based Phase Diagram of $Pr_{1-x}LaCe_xCuO_{4-\delta}$ and Possible Absence of Disparity between Electron- and Hole-Doped Cuprate Phase Diagrams** *Changyoung Kim, Seoul National Univ., Korea*
Invited 17:15-17:35	**From Mott to Not: Dirty d-wave state of overdoped cuprates** *Peter Hirschfeld, Univ. of Florida, USA*
Contributed 17:35-17:50	**Direct Observation of Multi-Band Physics in the Cuprate Superconductor $La_{2-x}Sr_xCuO_4$** *Masafumi Horio, Univ. of Zurich, Switzerland*
Contributed 17:50-18:05	**Continuous doping of a cuprate surface: new insights from in-situ ARPES** *Yigui Zhong, Inst. of Physics, CAS, China*
Contributed 18:05-18:20	**Interplay between AF correlations and PG phase in electron-doped cuprates** *Marta Zonno, Univ. of British Columbia, Canada*
Mon. Aug. 20th 16:15-18:15	**Session: Mo-S07 IBS 10th Anniversary Room 3** *Chair: Xianhui Chen, Univ. of Sci. & Techn. of China, China*
Invited 16:15-16:35	**Two Dome Structure in High T_c Iron-based Superconductors** *Hideo Hosono, Tokyo Inst. of Techn., Japan*
Invited 16:35-16:55	**Superconductivity and nematicity in FeSe** *Andrey Chubukov, Univ. of Minnesota , USA*
Invited 16:55-17:15	**Interface-Induced Superconductivity at Ambient Pressure in Undoped and Doped (FeAs)122 Single Crystals** *Paul C. W. Chu, Univ. of Houston, USA*
Invited 17:15-17:35	**Electronic phase separation, charge transport and spin nematicity in iron selenide superconductors** *Xiaoli Dong , Inst. of Physics, CAS, China*
Invited 17:35-17:55	**Interface Enhanced Superconductivity in Monolayer FeSe on MgO(001)** *Lili Wang, Tsinghua Univ., China*
Invited 17:55-18:15	**Exploration of layered superconducting materials via structural design** *Guanghan Cao, Zhejiang Univ., China*

Mon. Aug. 20th 16:15-18:10	**Session: Mo-S08 Devices** Room 4 *Chair: Andrew Cleland, Univ. of Chicago, USA*
Invited 16:15-16:35	**Scanning SQUID-on-tip thermal imaging: Glimpse into dissipation in quantum systems down to atomic scale** *Eli Zeldov, Weizmann Inst. of Science, Israel*
Invited 16:35-16:55	**Practical low-T_c SQUID Systems for Geophysics Applications** *Xiaoming Xie, SIMIT, CAS, China*
Contributed 16:55-17:10	**Near-field Intermodulation Distortion Imaging for Superconducting Device Physics** *Stephen Remillard, Hope College, USA*
Contributed 17:10-17:25	**THz Emitters and Their Applications Using High-Tc Superconducting Bi-2212 Mesa Structures for High Resolution and High Sensitivity Molecular Spectroscopy** *Junlan Zhong , Univ. of Tsukuba , Japan*
Contributed 17:25-17:40	**In Situ Tailoring of Superconducting Junctions via Electro-Annealing** *Alejandro Silhanek, Univ. de Liège, Belgium*
Contributed 17:40-17:55	**Current-Induced Crossover of Flux Periodicity from h/2e to h/e in Superconducting Nb Nano-Ring** *Yosef Yeshurun, Bar-Ilan Univ., Israel*
Contributed 17:55-18:10	**Aharonov-Bohm type periodic magnetoconductance oscillations in planar and ballistic superconductor-quantum wells Josephson junctions** *Kaveh Delfanazari, Univ. of Cambridge, UK*
Mon. Aug. 20th 16:15-18:05	**Session: Mo-S09 $SrTiO_3$ & Iridates** Room 5 *Chair: Huiqiu Yuan, Zhejiang Univ., China*
Invited 16:15-16:35	**ARPES view of the metal-insulator transitions in Sr_2IrO_4 and $Sr_3Ir_2O_7$** *Veronique Brouet, Univ. Paris Sud - CNRS, France*
Invited 16:35-16:55	**Interplay between superconductivity and ferroelectricity in strontium titanate** *Kamran Behnia, ESPCI, France*

Invited 16:55-17:15	**Novel Phase Emergence, Superconductivity and Quantum Criticality in Ferroelectric Materials** *Siddharth Saxena, Univ. of Cambridge, UK*
Invited 17:15-17:35	**Superconductivity in strontium titanate under uniaxial strain near a quantum phase transition** *Ilya Sochnikov, Univ. of Connecticut, USA*
Contributed 17:35-17:50	**Suppression of weak ferromagnetism in low dimensional OtherSC-$SrTiO_3$ & Iridates by interfacial engineering of octahedral rotations** *Yuefeng Nie, Nanjing Univ., China*
Contributed 17:50-18:05	**Superconducting Transition Temperature of 500 mK for La-doped $SrTiO_3$ Single Crystals with Oxygen Isotope (^{18}O) Substitution** *Yasuhide Tomioka, Advanced Industrial Sci. and Techn., Japan*
Mon. Aug. 20th 16:15-17:50	**Session: Mo-S10 Mott Physics-1 Room 6** *Chair: Takami Tohyama, Tokyo Univ. of Sci., Japan*
Invited 16:15-16:35	**Evolution of the Magnetic and Phonon Excitations in High T_c Cuprates** *Yingying Peng, Univ. of Illinois at Urbana-Champaign, USA*
Invited 16:35-16:55	**Two-dimensional topological and nodeless superconducting phases emerged from d-wave superconductors in proximity to antiferromagnets** *Guang-Ming Zhang, Tsinghua Univ., China*
Invited 16:55-17:15	**Anomalous Excitation Spectra and Fractional Excitations in the two-dimensional Mott Insulator** *Jian-Xin Li, Nanjing Univ., China*
Invited 17:15-17:35	**Novel many-body quantum effect in doped Mott insulators/high-T_c cuprates** *Zheng-Yu Weng, Tsinghua Univ., China*
Contributed 17:35-17:50	**Static Spin Susceptibility in Magnetically Ordered States and Coexistent States of Superconductivity and Antiferromagnetism** *Kazuhiro Kuboki, Kobe Univ., Japan*

Tuesday, August 21st, 2018

08:30-09:10	**Plenary 5: Cooperative Interactions as a Route to High Temperature Superconductivity** **Room 1** *Zhi-Xun Shen, Stanford Univ., USA* *Chair: Katsuya Shimizu, Osaka Univ., Japan*
09:10-09:50	**Plenary 6: Scattering from High-Temperature Superconductors: New Insights and Perspectives** **Room 1** *Bernhard Keimer, MPI for Solid State Research, Germany* *Chair: Katsuya Shimizu, Osaka Univ., Japan*
09:50-10:10	**Coffee Break 20 minutes**
10:10-12:05	**Parallel Oral Sessions : Tu-S11 – Tu-S15 Room 2-6**
12:05-14:00	**Poster Session 2: Experiments-1 / Lunch**
14:00-16:00	**Parallel Oral Sessions : Tu-S16 – Tu-S20 Room 2-6**
16:00-16:15	**Coffee Break 15 minutes**
16:15-18:05	**Parallel Oral Sessions : Tu-S21 – Tu-S25 Room 2-6**
18:05-18:30	**Coffee Break 25 minutes**
18:30-20:00	**Prize Award Ceremony** **Room 1** *Chair: Fuchun Zhang, Univ. of CAS, China* **John Bardeen Prize 2018** *Laudatio by Eduardo Fradkin* Winners : Andrey V. Chubukov, Igor Mazin, Sebastian Doniach **Heike Kamerlingh-Onnes Prize 2018** *Laudatio by Dirk van der Marel* Winners : Yuji Matsuda, Louis Taillefer **Bernd T. Matthias Prize 2018** *Laudatio by Paul C.W. Chu* Winner: Katsuya Shimizu

Tuesday

Tue. Aug. 21st 10:10-11:50	Session: Tu-S11 Cuprates SC State-2 Room 2 *Chair: Stephen Hayden, Univ. of Bristol, UK*
Invited 10:10-10:30	**The Stiffnessometer - a Magnetic-Field-Free Superconducting Stiffness Meter Reveals Two Critical Temperatures in LSCO** *Amit Keren, Technion-Israel Inst. of Techn., Israel*
Invited 10:30-10:50	**Percolative Superconductivity in the Cuprates** *Martin Greven, Univ. of Minnesota, USA*
Invited 10:50-11:10	**Probing pair-correlations and Coulomb energy of the superconducting state in the high T_c cuprates** *Dirk Van der Marel, Univ. of Geneva, Switzerland*
Invited 11:10-11:30	**Locating the missing superconducting electrons in overdoped cuprates** *Peter Armitage, Johns Hopkins Univ., USA*
Invited 11:30-11:50	**Antiferromagnetic Spin Gap Limits the Coherent Superconducting Gap in Cuprates** *John M. Tranquada, Brookhaven National Lab, USA*
Tue. Aug. 21st 10:10-12:00	**Session: Tu-S12 IBS Elect. State-1 Room 3** *Chair: Donglai Feng, Fudan Univ., China*
Invited 10:10-10:30	**Laser ARPES on Orbital Origin of Extremely Anisotropic Superconducting Gap in Nematic Phase of FeSe Superconductor** *Xingjiang Zhou, Inst. of Physics, CAS, China*
Invited 10:30-10:50	**ARPES Study of Nematicity in FeSe** *Donghui Lu, SLAC National Accelerator Lab, USA*
Invited 10:50-11:10	**Systematic ARPES of iron-based superconductors as a test for theories** *Sergey Borisenko, IFW-Dresden, Germany*
Invited 11:10-11:30	**Pairing Mechanism of the FeSe-monolayer and related Systems: Phonon Boost Effect and Dynamical Tuning of Pairing Cutoff Energy** *Yunkyu Bang, Pohang Univ. of Science and Technology, Korea*

Contributed 11:30-11:45	**Extrinsic Photoelectron Energy Losses as the Origin of Replica Bands in Photoemission of FeSe on $SrTiO_3$** *Fengmiao Li, Stewart Blusson Quantum Matter Inst., Canada*
Contributed 11:45-12:00	**Antiferromagnetic Order in Epitaxial FeSe Films on $SrTiO_3$** *Dong Qian, Shanghai Jiao Tong Univ., China*
Tue. Aug. 21st 10:10-11:45	**Session: Tu-S13 Topological State-1 Room 4** *Chair: Jinfeng Jia, Shanghai Jiao Tong Univ., China*
Invited 10:10-10:30	**Interacting topological superconductor in one dimension** *Yi Zhou, Zhejiang Univ., China*
Invited 10:30-10:50	**Topological Nature of the Kondo Insulator SmB_6 – Dependency on the Crystallinity** *Wan Kyu Park, National High Magnetic Field Lab, USA*
Invited 10:50-11:10	**Topological superconductivity with spin-3/2 half-heusler compounds beyond spin triplet pairing** *Congjun Wu, Univ. of California, San Diego, USA*
Invited 11:10-11:30	**Superconductivity in Topological Materials:Insights from Superconducting Density Functional Theory** *Ryotaro Arita, Univ. of Tokyo, Japan*
Contributed 11:30-11:45	**Helical Majorana edge mode in a superconducting antiferromagnetic quantum spin Hall insulator** *Ching-Kai Chiu, Kavli Inst. for Theoretical Sciences, China*
Tue. Aug. 21st 10:10-12:05	**Session: Tu-S14 Ruthenates Room 5** *Chair: Kui Jin, Inst. of Physics, CAS, China*
Invited 10:10-10:30	**Theory of Sr_2RuO_4: active/passive bands, spin-orbital coupling and effect of uniaxial and biaxial strains** *Qiang-Hua Wang, Nanjing Univ., China*
Invited 10:30-10:50	**Uniaxial Pressure Studies of Unconventional Superconductivity** *Andrew Mackenzie, MPI for Chem. Phys. of Solids, Germany*
Invited 10:50-11:10	**Josephson Coupling Enabled Mixed Pairing State in the Eutectic Phase of Ru-Sr_2RuO_4** *Ying Liu, Pennsylvania State Univ., USA*

Invited **11:10-11:30**	**Physical Properties of uniaxially strained Sr_2RuO_4 examined by ^{17}O NMR** *Stuart Brown, UCLA, USA*
Invited **11:30-11:50**	**Spin-Triplet Superconductivity in the Ruthenate** *Yoshiteru Maeno, Kyoto Univ., Japan*
Contributed **11:50-12:05**	**The symmetry of the superconducting order parameter of Sr_2RuO_4** *Siham Benhabib, CNRS, France*
Tue. Aug. 21st **10:10-11:30**	**Session: Tu-S15 SC General-Failed SC Room 6** *Chair: Eduardo Fradkin, UIUC, USA*
Invited **10:10-10:30**	**The Density and Disorder Tuned Superconductor-Metal Transition in Two Dimensions** *Harold Hwang, Stanford Univ., USA*
Invited **10:30-10:50**	**Anomalous Metals - Failed Superconductors** *Steven Kivelson, Stanford Univ., USA*
Invited **10:50-11:10**	**Gauge Theory of the Superconductor-Insulator Transition** *Valerii Vinokour, Argonne National Lab, USA*
Invited **11:10-11:30**	**Thermal measurements at the SIT** *Aviad Frydman, Bar Ilan Univ., Israel*
12:05-14:00	**Poster Session 2: Experiments-1 / Lunch**
Tue. Aug. 21st **14:00-16:00**	**Session: Tu-S16 Loop Current Room 2** *Chair: Martin Greven, Univ. of Minnesota, USA*
Invited **14:00-14:20**	**Electronic structure in the pseudogap state of cuprates** *Chandra Varma, Univ. of California, USA*
Invited **14:20-14:40**	**Singular Density Fluctuations in the Strange Metal Phase of $Bi_2Sr_2CaCu_2O_{8+x}$** *Peter Abbamonte, UIUC, USA*
Invited **14:40-15:00**	**Signature of loop currents in superconducting cuprates and Other SC-$SrTiO_3$ & Iridates** *Philippe Bourges, CEA, France*

Invited 15:00-15:20	**Discovery of slow magnetic fluctuations and critical slowing down in the pseudogap phase of $YBa_2Cu_3O_y$** *Lei Shu, Fudan Univ., China*
Invited 15:20-15:40	**No Evidence for Orbital Loop Currents in Charge Ordered $YBa_2Cu_3O_{6+x}$ from Polarized Neutron Diffraction** *Stephen Hayden, Univ. of Bristol, UK*
Invited 15:40-16:00	**Microscopic Analysis of ARPES Data in Superconductive State: Intrinsic Self-Energy and Pairing Interaction for Cuprates** *Han-Yong Choi, Sungkyunkwan Univ., Korea*
Tue. Aug. 21st 14:00-15:45	**Session: Tu-S17 IBS Elect. State-2 Room 3** *Chair: Hai-Hu Wen, Nanjing Univ., China*
Invited 14:00-14:20	**Phase Coherence Dominated Superconducting Transition in $Fe_{1+x}(Te,Se)$** *Shuheng Pan, Inst. of Physics, CAS, China*
Invited 14:20-14:40	**Spectroscopic-Imaging STM Studies of Nematicity and Superconductivity in $FeSe_{1-x}S_x$** *Tetsuo Hanaguri, RIKEN, Japan*
Invited 14:40-15:00	**Tuning superconductivity in $NbSe_2$ with uniaxial strain** *Abhay Pasupathy, Columbia Univ., USA*
Contributed 15:00-15:15	**Ultra-Low Temperature Spectroscopic Imaging Studies of Vortices in the Topological Superconductor $FeTe_{0.6}Se_{0.4}$** *Tadashi Machida, RIKEN, Japan*
Contributed 15:15-15:30	**Magnetism and the absence of superconductivity in $EuFe_{2-x}Ni_xAs_2$ single crystals** *Zbigniew Bukowski, Inst. of Low Temperature and Structure Research, Polish Academy of Sciences, Poland*
Contributed 15:30-15:45	**Multigap Superconductivity in $RbCa_2Fe_4As_4F_2$ Investigated Using μSR** *D.T. Adroja, Rutherford Appleton Laboratory, UK*
Tue. Aug. 21st 14:00-15:50	**Session: Tu-S18 Vortex Matter-1 Room 4** *Chair: Johann Blatter, ETH Zurich, Switzerland*

Invited 14:00-14:20	**Extraordinary pinning efficiency of 1D artificial pinning centers with engineered interface in $YBa_2Cu_3O_{7-x}$ nanocomposite films** *Judy Wu, Univ. of Kansas, USA*
Invited 14:20-14:40	**Pinscape Spectroscopy: Solving the Inverse Problem in Vortex Pinning** *Roland Willa, Argonne National Lab, USA*
Invited 14:40-15:00	**Vortex excitations in the Insulating State of an Oxide Interface** *Yoram Dagan, Tel Aviv Univ., Israel*
Invited 15:00-15:20	**Karman vortex streets generated by supercurrent flowing around pinning centers** *Victor V. Moshchalkov, KU Leuven, Belgium*
Contributed 15:20-15:35	**Molecular Dynamics Simulation for Melting Transition of Vortex Lattice and Vortex Pinning in a Superconductor** *Masaru Kato, Osaka Prefecture Univ., Japan*
Contributed 15:35-15:50	**Structural and Kinematic Studies of Metastable Vortex Lattice Phases in MgB_2** *Morten Eskildsen, Univ. of Notre Dame, USA*
Tue. Aug. 21st 14:00-15:50	**Session: Tu-S19 New SC Materials-1 Room 5** *Chair: Jianlin Luo, Inst. of Physics, CAS, China*
Invited 14:00-14:20	**Magnetic correlations in iron-germanide superconductors** *Jun Zhao, Fudan Univ., China*
Invited 14:20-14:40	**The competition between Charge Density Wave and Superconductivity in Pd_xHoTe_3** *Shancai Wang, Renmin Univ. of China, China*
Invited 14:40-15:00	**Recent progress on high throughput superconductivity research** *Kui Jin, Inst. of Physics, CAS, China*
Invited 15:00-15:20	**An enlightened search for New Superconductors** *Ivan Schuller, USCD, USA*
Contributed 15:20-15:35	**A New Look at an Old Puzzle: ARPES on $Ba_{1-x}K_xBiO_3$** *Nicholas Plumb, PSI, Switzerland*

Contributed 15:35-15:50	**Structural and Kinematic Studies of Metastable Vortex Themis Z: Opening the New Era for Superconductors** *Xuan Shen, Thermo Fisher Scientific, China*
Tue. Aug. 21st 14:00-15:45	**Session: Tu-S20 SC General-Nematic States Room 6** *Chair: Shiliang Li, Inst. of Physics, CAS, China*
Invited 14:00-14:20	**The So-called Nematic Phase is the Critical Regime of the Orbital/Structural Transition in the Fe-based Superonductors** *Wei Bao, Renmin Univ. of China, China*
Invited 14:20-14:40	**Diverse Nematic States and Pairing Mechanisms in Fe-based and Cuprate Superconductors** *Hiroshi Kontani, Nagoya Univ., Japan*
Invited 14:40-15:00	**Origin of nematicity in iron-based superconductors** *Zhiping Yin, Beijing Normal Univ., China*
Contributed 15:00-15:15	**Orbital fluctuations driven nematic superconductivity: coexistence of orbital polarization and Cooper pairing** *Liangjian Zou, Inst. of Solid State Physics, CAS, China*
Contributed 15:15-15:30	**Signatures of fluctuating nematic order in YBCO nanostructures** *Edoardo Trabaldo, Chalmers Univ. of Technology, Sweden*
Contributed 15:30-15:45	**Chirality Fluctuation and Electromagnetic Response in Nematic Superconductors** *Takeshi Mizushima, Osaka Univ., Japan*
16:00-16:15	**Coffee Break 15 minutes**
Tue. Aug. 21st 16:15-18:05	**Session: Tu-S21 Cuprates Elect. State-2 Room 2** *Chair: Han-Yong Choi, Sungkyunkwan Univ., Korea*
Invited 16:15-16:35	**Electronic structure and electronic order in lightly doped cuprates studied by STM** *Yayu Wang, Tsinghua Univ., China*
Invited 16:35-16:55	**Lattice Distortion Induced Effects on Electronic State in Bi-Sr-Ca-Cu-O Superconductors Determined by Scanning Tunneling Microscopy** *Yi Yin, Zhejiang Univ., China*

Invited **16:55-17:15**	**Conventional aspects of vortex cores in a copper oxide high-T_c superconductor** *Christoph Renner, Univ. of Geneva, Switzerland*
Invited **17:15-17:35**	**Non-Fermi Liquid Scattering against Emergent Bose Liquid: Manifestations in the Kink and Other Exotic Quasiparticle Behaviors in the Normal-State Cuprate Superconductors** *Wei Ku, Shanghai Jiao Tong Univ., China*
Contributed **17:35-17:50**	**Electronic State in the Undoped (Ce-free) Superconductor T'-$La_{1.8}Eu_{0.2}CuO_4$ Studied from Impurity Effects on Muon Spin Relaxation** *Takayuki Kawamata, Tohoku Univ., Japan*
Contributed **17:50-18:05**	**Reduction and Electron-Doping Effects on the Cu-Spin Correlation in Electron-Doped High-Tc Cuprates $Pr_{2-x-y}La_yCe_xCuO_{4+d}$** *Tadashi Adachi, Sophia Univ., Japan*
Tue. Aug. 21st **16:15-17:55**	**Session: Tu-S22 IBS-Orbital Room 3** *Chair: Sergey Borisenko, IFW-Dresden, Germany*
Invited **16:15-16:35**	**Orbital Selective Charge Quadrupole Density Wave in $FeSe_{1-x}S_x$ -- Charge Fluctuations in Iron Pnictides and Selenides** *Girsh Blumberg, Rutgers Univ., USA*
Invited **16:35-16:55**	**In-situ doping control of iron-based superconductors via alkali-metal adsorption** *Yan Zhang, Peking Univ., China*
Invited **16:55-17:15**	**Electron Correlations and Multi-orbital Superconductivity in Iron Pnictides and Chalcogenides** *Qimiao Si, Rice Univ., USA*
Invited **17:15-17:35**	**Orbital Selectivity in the nematic and superconducting phases of Iron-based superconductors** *Laura Fanfarillo, Int. School for Advanced Studies SISSA, Italy*
Invited **17:35-17:55**	**Spectral Evidence for Emergent Order in $Ba_{1-x}Na_xFe_2As_2$** *Ming Yi, UC Berkeley, USA*
Tue. Aug. 21st **16:15-18:05**	**Session: Tu-S23 Electrical Applications-1 Room 4** *Chair: Yanwei Ma, Inst. of Electrical Engineering, China*

Invited 16:15-16:35	**Hydrostatic pressure effect on critical current density and vortex dynamics in REBaCuO coated conductors derived by metallorganic deposition** *Chuanbing Cai, Shanghai Univ., China*
Invited 16:35-16:55	**Advances in high critical current nanocomposite $YBa_2Cu_3O_{7-x}$ coated conductors from chemical solutions** *Xavier Obradors, ICMAB - CSIC, Spain*
Invited 16:55-17:15	**In-situ hydrostatic pressure induced giant enhancement of superconductivity, flux pinning, and J_c in Fe-based superconductors and YBCO coated conductors** *Xiaolin Wang, Inst. for Superconducting & Electronic Materials, Australia*
Invited 17:15-17:35	**New experiments on the origin of the grain boundary problem in HTS cuprates** *David Larbalestier, National High Magnetic Field Lab, USA*
Contributed 17:35-17:50	**High Performance $Bi_2Sr_2CaCu_2O_x$ Round Wires** *Jianyi Jiang, National High Magnetic Field Lab, USA*
Contributed 17:50-18:05	**Recent Progresses on BSCCO Wires and Applications at InnoST** *Xiuhua Song, Innova Superconductor Techn. Co., Ltd., China*
Tue. Aug. 21st 16:15-17:50	**Session: Tu-S24 New SC Materials-2 Room 5** *Chair: Liling Sun, Inst. of Physics, CAS, China*
Invited 16:15-16:35	**Crystal structure and properties of some novel superconductors** *Xiaolong Chen, Inst. of Physics, CAS, China*
Invited 16:35-16:55	**Ionic-liquid-gating-assisted protonation: a new route for electron-doping and NMR studies in the iron-based and other superconductors** *Weiqiang Yu, Renmin Univ. of China, China*
Invited 16:55-17:15	**Physical and Chemical Properties of Several New Intermetallic Superconductors** *Robert Cava, Princeton Univ., USA*
Invited 17:15-17:35	**Superconductivity near structural instabilities** *Malte Grosche, Univ. of Cambridge, UK*

Tuesday

Contributed 17:35-17:50	**New type of superconductivity produced by electrostatic field and diffusion current in semiconductor** *Shinichi Ishiguri, Nihon Univ., Japan*
Tue. Aug. 21st 16:15-17:30	**Session: Tu-S25 SC-Mixed Views Room 6** *Chair: Steven Kivelson, Stanford Univ., USA*
Invited 16:15-16:35	**Emergent Spacetime Supersymmetry at Superconducting Quantum Criticality of a Single Dirac Cone** *Hong Yao, Tsinghua Univ., China*
Invited 16:35-16:55	**Machine Learning Emergence from Quantum Matter Data** *Eun-Ah Kim, Cornell Univ., USA*
Invited 16:55-17:15	**The Superconductor-Insulator transition and the Bose-Metal state** *S. Doniach, Stanford Univ., USA*
Contributed 17:15-17:30	**The Long-Range Singlet Proximity Effect for the Josephson System with Ferromagnet Nanowire** *Yurii Proshin, Kazan Federal Univ., Russia*
18:05-18:30	**Break 25 minutes**
18:30-20:00	**Prize Award Ceremony Room 1** *John Bardeen Prize Winner 2018* *Heike Kamerlingh-Onnes Prize Winner 2018* *Bernd T. Matthias Prize Winner 2018*

Wednesday, August 22nd, 2018

08:30-09:10	**Plenary 7: Discovery and Exploration of the Cuprate Pair Density Wave State** **Room 1** *J. C. Seamus Davis, Cornell Univ., USA* *Chair: Andrey Chubukov, Univ. of Minnesota, USA*
09:10-09:50	**Plenary 8: Quantum Criticality and Unconventional Superconductivity in Heavy Fermions** **Room 1** *Frank Steglich, MPI for Chem. Phys. of Solids, Germany* *Chair: Andrey Chubukov, Univ. of Minnesota, USA*
09:50-10:10	**Coffee Break 20 minutes**
10:10-12:00	**Parallel Oral Sessions : We-S26 – Tu-S30 Room 2-6**
12:05-14:00	**Poster Session 3: Experiments-2 / Lunch**
14:00-15:45	**Parallel Oral Sessions : We-S31 – We-S35 Room 2-6**
15:45-16:15	**Coffee Break 30 minutes**
16:15-18:10	**Parallel Oral Sessions : We-S36 – We-S40 Room 2-6**
18:10-19:00	**Break 50 minutes**
19:00-21:00	**Banquet Room 1**

Wed. Aug. 22nd 10:10-12:00	**Session: We-S26 Cuprates Charge Order-1 Room 2** *Chair: Marc-Henri Julien, Grenoble, France*
Invited 10:10-10:30	**Uniaxial Pressure Control of Competing Orders in a High Temperature Superconductor** *Matthieu Le Tacon, Karlsruhe Inst. of Techn., Germany*
Invited 10:30-10:50	**Interplay between charge order and superconductivity in cuprate superconductors** *Shiping Feng, Beijing Normal Univ., China*
Invited 10:50-11:10	**Intertwined order in cuprates and black hole hair** *Johannes Zaanen, Leiden Univ., Netherlands*
Invited 11:10-11:30	**Theory of Resonant Inelastic X-Ray Scattering in Cuprate Superconductors** *Takami Tohyama, Tokyo Univ. of Science, Japan*
Contributed 11:30-11:45	**Charge order and scaling between the superfluid density and the critical temperature T_c in cuprate superconductors** *Evandro De Mello, Univ. Federal Fluminense, Brazil*
Contributed 11:45-12:00	**Dimensional Crossover of Charge-Density Wave Correlations in the Cuprates** *Dror Orgad, The Hebrew Univ., Israel*
Wed. Aug. 22nd 10:10-11:55	**Session: We-S27 IBS Elect. State-3 Room 3** *Chair: Donghui Lu, SLAC National Accelerator Lab, USA*
Invited 10:10-10:30	**Hund's metal compressibility and its correlation with T_c in Iron-based superconductors** *Luca De Medici, ESPCI, France*
Invited 10:30-10:50	**The electronic structure of 112 iron pnictide superconductors probed by ARPES** *Ming Shi, PSI, Switzerland*
Invited 10:50-11:10	**Quantum oscillations studies of superconducting $FeSe_{1-x}S_x$ tuned by chemical and applied pressure across the nematic phase transition** *Amalia Coldea, Univ. of Oxford, UK*

Contributed 11:10-11:25	**Manifestation of the multiband nature in the BCS-BEC crossover of $FeSe_{1-x}S_x$** *Takahiro Hashimoto, The Inst. for Solid State Physics, Japan*
Contributed 11:25-11:40	**Discovery of a strain-stabilized charge density wave in LiFeAs** *Chi Ming Yim, Univ. of St Andrews, UK*
Contributed 11:40-11:55	**Fermi Surfaces and Spin Resonances in High-Tc Iron Selenide by Lifshitz Transition** *Jose Rodriguez, California State Univ. at Los Angeles, USA*
Wed. Aug. 22nd 10:10-12:00	**Session: We-S28 Electrical Applications-2 Room 4** *Chair: David Larbalestier, Nat. High Magnetic Field Lab, USA*
Invited 10:10-10:30	**Latest Progress in THEVA's HTS Wire Fabrication and Applications** *Werner Prusseit, THEVA GmbH, Germany*
Invited 10:30-10:50	**Recent progress in the development of Fe-based superconducting wires and tapes** *Yanwei Ma, Inst. of Electrical Engineering, China*
Invited 10:50-11:10	**Annealing Effect and Superconductivity in $FeSe_xTe_{1-x}$ Superconductors** *Zhixiang Shi, Southeast Univ., China*
Invited 11:10-11:30	**Fundamentally Different Behaviors between Superconductor and Conventional Conductor in a Lenz's Law Experiment** *Ying Xin, Tianjin Univ., China*
Contributed 11:30-11:45	**In-Plane Anisotropy of the Critical Current in Ba-122 Single Crystals** *Eisterer Michael, TU Wien, Austria*
Contributed 11:45-12:00	**Anomalous Enhancement of Critical Current Density due to Novel Planar Defects in $CaKFe_4As_4$** *Tsuyoshi Tamegai, The Univ. of Tokyo, Japan*
Wed. Aug. 22nd 10:10-11:55	**Session: We-S29 Heavy Fermion-1 Room 5** *Chair: Filip Ronning, Los Alamos National Lab, USA*
Invited 10:10-10:30	**Revisit of heavy fermion quantum critical superconductivity** *Yi-feng Yang, Inst. of Physics, CAS, China*

Wednesday

Invited 10:30-10:50	**Superconductivity in $YbRh_2Si_2$: electrical transport and noise experiments** *John Saunders, Royal Holloway Univ. of London, UK*
Invited 10:50-11:10	**Interplay between Superconductivity and Magnetism in Heavy Fermion Compounds Ce_3PdIn_{11} and Ce_3PtIn_{11}** *Dariusz Kaczorowski, Inst. of Low Temperature and Structure Research, Poland*
Contributed 11:10-11:25	**Attractive superconducting potential due to valence fluctuations in Heavy fermion superconductors** *Tanmoy Das, Indian Inst. of Science, India*
Contributed 11:25-11:40	**Kohn-Luttinger superconductivity and the Lifshitz transitions in ferromagnetic superconductors: the paradigm of URhGe** *Joseph Betouras, Loughborough Univ., UK*
Contributed 11:40-11:55	**Ferromagnetic fluctuations and Superconductivity of UCoGe under Pressure** *Kenji Ishida, Kyoto Univ., Japan*
Wed. Aug. 22nd 10:10-11:45	**Session: We-S30 SC General-Excited State Room 6** *Chair: Yasutomo Uemura, Columbia Univ., USA*
Invited 10:10-10:30	**Optical Melting of the Transverse Josephson Plasmon in Bilayer and Trilayer Cuprates** *Wanzheng Hu, Boston Univ., USA*
Invited 10:30-10:50	**Photo-induced new collective modes and metastable states in cuprate superconductors** *Nan-Lin Wang, Peking Univ., China*
Invited 10:50-11:10	**Theory of Higgs Spectroscopy of Superconductors in non-equilibrium** *Dirk Manske, MPI for Solid State Research, Germany*
Invited 11:10-11:30	**TBA** *Thomas Peter Devereaux, Stanford Univ., USA*

Contributed 11:30-11:45	**Tunneling Probe of Fluctuating Superconductivity in Disordered Thin Film** *Emanuele Dalla Torre, Bar-Ilan Univ., Israel*
12:05-14:00	**Poster Session 3: Experiments-2 / Lunch**
Wed. Aug. 22nd 14:00-15:35	**Session: We-S31 Cuprates Normal State-1 Room 2** *Chair: Richard Greene, Univ. of Maryland, USA*
Invited 14:00-14:20	**Universal T-linear Resistivity and Planckian Limit in Overdoped Cuprates** *Cyril Proust, LNCMI-Toulouse, France*
Invited 14:20-14:40	**Phase Diagram of Underdoped Cuprates in a Magnetic Field: A Unified Perspective** *Dragana Popovic, Florida State Univ., USA*
Invited 14:40-15:00	**The Essence of the High-T_c Cuprates** *Neven Barisic, TU Wien, Austria*
Invited 15:00-15:20	**Using high magnetic fields to reveal critical behavior near optimum doping in high-temperature superconductivity** *Gregory Boebinger, Nat. High Magnetic Field Lab, USA*
Contributed 15:20-15:35	**Thermodynamic signatures of quantum criticality in cuprates** *Bastien Michon, Univ. of Geneva, Switzerland*
Wed. Aug. 22nd 14:00-15:45	**Session: We-S32 IBS Materials-1 Room 3** *Chair: Tetsuo Hanaguri, RIKEN, Japan*
Invited 14:00-14:20	**Pressure Induced Reemergence of High-T_c Superconductivity in Heavily Electron Doped FeSe Materials** *Jinguang Cheng, Inst. of Physics, CAS, China*
Invited 14:20-14:40	**Discrete superconducting phases in FeSe-derived superconductors** *Shiyan Li, Fudan Univ., China*
Invited 14:40-15:00	**Recent Progress in 1144- and 122-type Fe-based Superconductors** *Akira Iyo, AIST, Japan*

Contributed 15:00-15:15	**Enhanced anisotropy and transport properties of heavily electron doped $Li_x(NH_3)_yFe_2(Se, Te)_2$ single crystals** *Hechang Lei, Renmin Univ. of China, China*
Contributed 15:15-15:30	**Electrochemical control of hysteretic current-voltage characteristics in Fe(Te,Se) superconductors** *Yue Sun, Aoyama Gaguin Univ., Japan*
Contributed 15:30-15:45	**Superconductivity in Akali-Metal- and Organic-Molecule-Intercalated FeSe: Comparison with Single-Layer FeSe Films** *Yoji Koike, Tohoku Univ., Japan*
Wed. Aug. 22nd 14:00-15:45	**Session: We-S33 Vortex Matter-2 Room 4** *Chair: Yoram Dagan, Tel Aviv Univ., Israel*
Invited 14:00-14:20	**Scanning probe microscopy of vortices in tilted magnetic fields** *Hermann Suderow, Univ. Autonoma de Madrid, Spain*
Invited 14:20-14:40	**Strong Pinning Theory** *Johann Blatter, ETH Zurich, Switzerland*
Invited 14:40-15:00	**AC dynamic reorganization and critical phase transition in vortex matter** *Gabriela Pasquini, Univ. de Buenos Aires, Argentina*
Contributed 15:00-15:15	**Bose-glass vortex phase in heavy ion irradiated BaK122 iron based superconductors** *Marcin Konczykowski, CNRS&CEA, France*
Contributed 15:15-15:30	**Nucleation of Fractional Vortices in a Superconducting Bilayer** *Taichiro Nishio, Tokyo Univ. of Science, Japan*
Contributed 15:30-15:45	**Flux Creep in Strong Pinning Theory** *Vadim Geshkenbein, ETH, Switzerland*
Wed. Aug. 22nd 14:00-15:30	**Session: We-S34 Heavy Fermion-2 Room 5** *Chair: Yi-feng Yang, Inst. of Physics, CAS, China*
Invited 14:00-14:20	**Strain effects on superconductivity in $CeMIn_5$ (M = Co, Rh, Ir) investigated by thermal expansion** *Hilbert Von Loehneysen, KIT, Germany*

Invited 14:20-14:40	**$CeRhIn_5$ in an Applied Magnetic Field** *Filip Ronning, Los Alamos National Lab, USA*
Invited 14:40-15:00	**Unidirectional Superconductivity in the Three-dimensional Metal $CeIrIn_5$** *Philip Moll, EPFL, Switzerland*
Contributed 15:00-15:15	**Impurity effects on SDW order in FFLO phase of $CeCoIn_5$** *Ryusuke Ikeda, Kyoto Univ., Japan*
Contributed 15:15-15:30	**Pressure Dependent Critical Current in Quantum Critical Superconductors** *Soon-Gil Jung, Sungkyunkwan Univ., Korea*
Wed. Aug. 22nd 14:00-15:35	**Session: We-S35 Phase Diagram&Transition Room 6** *Chair: Qimiao Si, Rice Univ., USA*
Invited 14:00-14:20	**Non-Fermi-liquid behaviors and quantum critical points in iron-based superconductors** *Shiliang Li, Inst. of Physics, CAS, China*
Invited 14:20-14:40	**Phase diagram of unconventional superconductors: common threads revealed by multiple tuning** *Christos Panagopoulos, Nanyang Techn. Univ., Singapore*
Invited 14:40-15:00	**A Local Quantum Phase Transition in YFe_2Al_{10}** *Meigan Aronson, Texas A&M Univ., USA*
Invited 15:00-15:20	**Magnetic interactions and possible quantum paraelectricity in spin liquid candidate $H_3LiIr_2O_6$** *Fa Wang, Peking Univ., China*
Contributed 15:20-15:35	**Magnetic (AF SDW) transition in the normal state of iron- and copper-based HTSC** *Lev Mazov, Inst. for Physics of Microstructures RAS, Russia*
15:45-16:15	**Coffee Break 30 minutes**
Wed. Aug. 22nd 16:15-17:50	**Session: We-S36 Cuprates Normal State-2 Room 2** *Chair: Gregory Boebinger, Nat. High Magnetic Field Lab, USA*
Invited 16:15-16:35	**Umklapp scattering as the origin of T-linear resistivity in the normal state of high-T_c cuprate superconductors** *Alexei Tsvelik, Brookhaven National Lab, USA*

Invited 16:35-16:55	**Two fluid model for diamagnetic susceptibility and Nernst effect in high T_c superconductors** *Qijin Chen, Zhejiang Univ., China*
Invited 16:55-17:15	**Superconductivity and Competing Phases in High T_c Cuprates** *Antony Carrington, Univ. of Bristol, UK*
Invited 17:15-17:35	**Anomalous Transport Properties of Electron-Doped $La_{2-x}Ce_xCuO_4$** *Richard Greene, Univ. of Maryland, USA*
Contributed 17:35-17:50	**The c-axis resistance mystery in high temperature superconductor: insights from scanning noise spectroscopy** *Milan Allan, Leiden Univ., Netherlands*
Wed. Aug. 22nd 16:15-17:45	**Session: We-S37 IBS Dynamics-1 Room 3** *Chair: Setsuko Tajima, Osaka Univ., Japan*
Invited 16:15-16:35	**Infrared Study of Antiferromagnetic Correlations and Electron-Phonon Coupling in Hole-Doped Iron Arsenide Superconductors** *Christian Bernhard, Univ. of Fribourg, Switzerland*
Invited 16:35-16:55	**Orbital selective physics in iron-based superconductor KFe_2As_2** *Xianggang Qiu, Inst. of Physics, CAS, China*
Invited 16:55-17:15	**Fingerprints of Cooper Pairing in Iron-Based Superconductors** *Rudolf Hackl, BAyerische Akademie der Wissenschaften, Germany*
Contributed 17:15-17:30	**Optical properties of the electronic nematic phase in FeSe** *Leonardo Degiorgi, ETH Zurich, Switzerland*
Contributed 17:30-17:45	**Ultrafast quasiparticle dynamics and electron-phonon coupling in $(Li_{0.84}Fe_{0.16})OHFe_{0.98}Se$** *Jimin Zhao, Inst. of Physics, CAS, China*
Wed. Aug. 22nd 16:15-18:10	**Session: We-S38 Topological State-Nematic Room 4** *Chair: Ulrich Welp, Argonne National Lab, USA*

Invited 16:15-16:35	**Topological spin-triplet superconducting states revealed by NMR** *Guo-qing Zheng, Okayama Univ., Japan*
Invited 16:35-16:55	**Evidence of Nematic Superconductivity in Doped Bi_2Se_3 and Bi_2Te_3/FeTeSe Heterostructures** *Hai-Hu Wen, Nanjing Univ., China*
Invited 16:55-17:15	**Nematic superconductivity in $Cu_xBi_2Se_3$ studied by scanning tunneling spectroscopy** *Donglai Feng, Fudan Univ., China*
Invited 17:15-17:35	**Nematic Superconducting Gap in the Topological Superconductor $Cu_xBi_2Se_3$** *Shingo Yonezawa, Kyoto Univ., Japan*
Invited 17:35-17:55	**Nematic superconductivity in doped topological insulators** *Joerg Schmalian, KIT, Germany*
Contributed 17:55-18:10	**Nematic superconductivity in topological materials** *Antheunis De Visser, Univ. of Amsterdam, Netherlands*
Wed. Aug. 22nd 16:15-17:50	**Session: We-S39 SC-Light Element Room 5** *Chair: Zhi-An Ren, Inst. of Physics, CAS, China*
Invited 16:15-16:35	**Electron-Phonon Coupling in Compressed H-rich Solids** *Warren Pickett, Univ. of California Davis, USA*
Invited 16:35-16:55	**Raising superconducting transition temperature by lifting the σ-bonding bands to the Fermi level** *Zhong-Yi Lu, Renmin Univ. of China, China*
Invited 16:55-17:15	**Superconductivity and Magnetism in all-Carbon π-electron Systems** *Kosmas Prassides, Tohoku Univ., Japan*
Invited 17:15-17:35	**Formation of High-T_c Phase of Sulfur Hydride by Low-Temperature Compression** *Katsuya Shimizu, Osaka Univ., Japan*
Contributed 17:35-17:50	**Potential high-T_c superconducting ternary hydrides at high pressure** *Guoying Gao, Yanshan Univ., China*

Wed. Aug. 22nd 16:15-17:50	Session: We-S40 SC-Common Features Room 6 *Chair: Johannes Zaanen, Leiden Univ., Netherlands*
Invited 16:15-16:35	**Single-orbital realization of high temperature s± superconductivity in the square-octagon lattice** *Daoxin Yao, Sun Yat-Sen Univ., China*
Invited 16:35-16:55	**Molecular orbital approach to electron phonon and pairing interactions in skipped valence and negative charge transfer gap Oxides** *George Albert Sawatzky, Univ. of British Columbia, Canada*
Invited 16:55-17:15	**Thermodynamics of cuprate, hydride and all superconductors** *Jeffery Tallon, Victoria Univ. of Wellington, New Zealand*
Invited 17:15-17:35	**Ground-state order in the underdoped region of the 2D Hubbard model** *Garnet Kin-Lic Chan, Princeton Univ., USA*
Contributed 17:35-17:50	**Wigner Electronic Crystallization as an Example of Local Field Influence on Superconducting Transition** *Oleg Dolgov, Donostia Int. Physics Center, Spain*
18:10-19:00	Break 50 minutes
19:00-21:00	Banquet Room 1

Thursday, August 23rd, 2018

08:30-09:10	**Plenary 9: Magic Angle Graphene: a New Platform for Strongly Correlated Physics** **Room 1** *Pablo Jarillo-Herrero, MIT, USA* *Chair: Dirk van der Marel, Univ. of Geneva, Switzerland*
09:10-09:50	**Plenary 10: The Pseudogap Critical Point of Cuprate Superconductors** **Room 1** *Louis Taillefer, Univ. of Sherbrooke, Canada* *Chair: Dirk van der Marel, Univ. of Geneva, Switzerland*
09:50-10:10	**Coffee Break 20 minutes**
10:10-12:05	**Parallel Oral Sessions : Th-S41 – Th-S45 Room 2-6**
12:05-14:00	**Poster Session 4: Theories / Lunch**
14:00-15:55	**Parallel Oral Sessions : Th-S46 – Th-S50 Room 2-6**
15:55-16:15	**Coffee Break 20 minutes**
16:15-18:30	**Parallel Oral Sessions : Th-S51 – Th-S55 Room 2-6**

Thu. Aug. 23rd 10:10-11:50	Session: Th-S41 Cuprates Pseudogap Room 2 *Chair: Ting-Kuo Lee, Academia Sinica , Taiwan, China*
Invited 10:10-10:30	**Pairing origin of the pseudogap as observed in ARPES measurement in the underdoped cuprates** *Tao Li, Renmin Univ. of China, China*
Invited 10:30-10:50	**Interplay Between Superconductivity and Pseudogap in Cuprates** *Bastien Loret, Univ. Paris Diderot, France*
Contributed 10:50-11:05	**BCS-like Pseudogap and Novel Isotope Effects in High-T_c Cuprate Superconductors** *Safarali Djumanov, Inst. of Nuclear Physics , Uzbekistan*
Contributed 11:05-11:20	**In-plane Anisotropy of the Pseudogap Temperature in Underdoped Ultrathin $YBa_2Cu_3O_{7-\delta}$ Thin Films** *Eric Andersson, Chalmers Univ. of Tech., Sweden*
Contributed 11:20-11:35	**Exotic Z_2 Symmetry Breaking Transitions : Theory of Pseudo-gap transitions** *Eun-Gook Moon, KAIST, Korea*
Contributed 11:35-11:50	**Mode-coupling Model of Cuprate Pseudogap: Insights from New First-principles Results** *Robert Markiewicz, Northeastern Univ., USA*
Thu. Aug. 23rd 10:10-12:00	**Session: Th-S42 IBS Nematicity-1 Room 3** *Chair: Rafael Fernandes, Univ. of Minnesota , USA*
Invited 10:10-10:30	**Response of the nematicity and superconductivity of FeSe to in-plane anisotropic strain** *Clifford Hicks, MPI-CPfS, Germany*
Invited 10:30-10:50	**Local orthorhombic lattice distortions in the paramagnetic tetragonal phase of superconducting $NaFe_{1-x}Ni_xAs$** *Pengcheng Dai, Rice Univ., USA*
Invited 10:50-11:10	**Site-selective NMR evidence for spin nematic state in FeSe superconductor** *Tao Wu, Univ. of Sci. and Tech. of China, China*
Invited 11:10-11:30	**Nematic fluctuations and superconductivity in iron-based superconductors** *Takasada Shibauchi, Univ. of Tokyo, Japan*

Contributed 11:30-11:45	**Evidence of nematic electronic state and nodal superconducting gap along [110] direction in $RbFe_2As_2$** *Tong Zhang, Fudan Univ., China*
Contributed 11:45-12:00	**Singular magnetic anisotropy in the nematic phase of FeSe** *Rui Zhou, Inst. of Physics,CAS, China*
Thu. Aug. 23rd 10:10-12:05	**Session: Th-S43 Topological State-Majorana Room 4** *Chair: Li Lu, Inst. of Physics, CAS, China*
Invited 10:10-10:30	**Topological superconductor and Majorana fermions in the vortex** *Jinfeng Jia, Shanghai Jiao Tong Univ., China*
Invited 10:30-10:50	**Spectroscopic evidence of two distinct chiral topological superconducting phases in a heterostructure of a superconductor and a quantum anomalous Hall insulator** *Rolf Walter Lortz, Hong Kong Univ. of Sci. & Tech., China*
Invited 10:50-11:10	**Topological Larkin-Ovchinnikov phase and Majorana zero mode chain in bilayer superconducting topological insulator films** *Fuchun Zhang, Univ. of CAS, China*
Invited 11:10-11:30	**Quantization of Chiral Majorana Fermions: Quantum Transport and Interference** *Qinglin He, Peking Univ., China*
Invited 11:30-11:50	**Spotting the Elusive Majorana in Atomic Chains Under the Microscope** *Ali Yazdani, Princeton Univ., USA*
Contributed 11:50-12:05	**Majorana Multiplexing** *Yang Peng, California Inst. of Tech., USA*
Thu. Aug. 23rd 10:10-12:00	**Session: Th-S44 SC-Twisted Graphene Room 5** *Chair: Pablo Jarillo-Herrero, MIT, USA*
Invited 10:10-10:30	**The nature of correlations in the insulating states of twisted bilayer graphene** *Leni Bascones, ICMM-CSIC, Spain*
Invited 10:30-10:50	**Wigner Crystallization in Lieu of Mottness in Twisted bi-layer Graphene** *Philip Phillips, UIUC, USA*

Invited 10:50-11:10	**Superconducting graphene** *Takashi Takahashi, Tohoku Univ., Japan*
Invited 11:10-11:30	**Hubbard Model, Unconventional Superconductivity and Density Waves in Twisted Bilayer Graphene** *Fanqi Yuan, MIT, USA*
Contributed 11:30-11:45	**Chiral SDW and d + id Superconductivity in the Magic-angle Twisted Bilayer-graphene** *Fan Yang, Beijing Inst. of Tech., China*
Contributed 11:45-12:00	**Effects of Electron-Electron Interactions in Twisted Bilayer Graphene at Magic Angle: Spin-Density-Waves and Conductivity** *Artem Sboychakov, ITAE, Russia*
Thu. Aug. 23rd 10:10-11:45	**Session: Th-S45 SC-New Insights Room 6** *Chair: Shin-ichi Uchida, Univ. of Tokyo , Japan*
Invited 10:10-10:30	**Dynamics of the Meissner Effect: How Superconductors Expel Magnetic Fields** *Jorge E. Hirsch, Univ. of California, San Diego, USA*
Invited 10:30-10:50	**Recent development in spin superconductor** *Xin-Cheng Xie, Peking Univ., China*
Invited 10:50-11:10	**Bulk Topological Superconductors, Gap Structure, and Effect of Electron Scattering** *Ulrich Welp, Argonne National Lab, USA*
Invited 11:10-11:30	**Quasiparticle interference and strong electron-boson coupling in Sr_2RuO_4** *Vidya Madhavan, UIUC, USA*
Contributed 11:30-11:45	**Reformulating Supercurrent Generation in Superconductors** *Hiroyasu Koizumi, Univ. of Tsukuba, Japan*
12:05-14:00	**Poster Session 4: Theories / Lunch**
Thu. Aug. 23rd 14:00-15:50	**Session: Th-S46 Cuprates PDW Room 2** *Chair: Tao Li , Renmin Univ. of China, China*
Invited 14:00-14:20	**Pair density wave as the mother state of the pseuo-gap in Cuprates.** *Patrick A. Lee, MIT, USA*

Invited 14:20-14:40	**Evolution of pair density waves from superconducting to pseudogap phases in copper oxide superconductors** *Ting-Kuo Lee, Academia Sinica, Taiwan, China*
Invited 14:40-15:00	**Pair Density Waves and Intertwined Orders in High Tc Superconductors** *Eduardo Fradkin, UIUC, USA*
Invited 15:00-15:20	**Atomic-Scale Andreev Reflection** *John Wei, Univ. of Toronto, Canada*
Contributed 15:20-15:35	**Magnetic-field Induced Pair Density Wave State in the Cuprate Vortex Halo** *Stephen Edkins, Stanford Univ., USA*
Contributed 15:35-15:50	**Numerical evidence of fluctuating stripes in high-Tc cuprate superconductors** *Edwin Huang, Stanford Univ., USA*
Thu. Aug. 23rd 14:00-15:50	**Session: Th-S47 IBS Dynamics-2 Room 3** *Chair: Pengcheng Dai, Rice Univ., USA*
Invited 14:00-14:20	**Spin-orbit coupling and preferred magnetic excitations in iron-based superconductors** *Yuan Li, Peking Univ., China*
Invited 14:20-14:40	**Spin-space Anisotropy in FeAs Based Superconductors** *Markus Braden, Univ. of Cologne, Germany*
Invited 14:40-15:00	**Momentum and Doping Dependence of the Band Renormalization and Scattering Rates in Iron-based Superconductors Determined by ARPES** *Joerg Fink, IFW, Germany*
Invited 15:00-15:20	**Theory of Normal State and Supercondctivity in Iron Pnictides and Chalcogenides.** *Gabriel Kotliar, BNL and Rutgers Univ., USA*
Contributed 15:20-15:35	**Magnetic-field Induced Pair Density Wave State in the Intrinsic Charge Dynamics in High-T_c AFeAs(O,F) Superconductors** *Aliaksei Charnukha, IFW Dresden, Germany*
Contributed 15:35-15:50	**Odd and even modes of neutron spin resonance in $CaKFe_4As_4$** *Huiqian Luo, Inst. of Physics, CAS, China*

Thu. Aug. 23rd 14:00-15:45	Session: Th-S48 2D SC Interface Room 4 *Chair: Dragan Mihailovic, Jozef Stefan Inst., Slovenia*
Invited 14:00-14:20	**Scanning Tunneling Spectroscopy of Interface Superconductivity** *Can-Li Song, Tsinghua Univ., China*
Invited 14:20-14:40	**Scanning tunneling microscopic observation of the enhancement of T_c and critical field in epitaxial islands grown on $SrTiO_3$ substrate** *Minghu Pan, Huazhong Univ. of Sci. and Tech., China*
Invited 14:40-15:00	**Superconductivity at the $LaAlO_3/SrTiO_3$ interface and related systems** *Jean-Marc Triscone, Univ. of Geneva, Switzerland*
Contributed 15:00-15:15	**Possible Unconventional Superconducting Pairing Mechanism of Two-Dimensional Electron Gas at $LaAlO_3/SrTiO_3$ Interface** *Jiacai Nie, Beijing Normal Univ., China*
Contributed 15:15-15:30	**One-Dimensional Nature of Superconductivity at the $LaAlO_3/SrTiO_3$ Interface** *Yun-Yi Pai, Levy Lab, Univ. of Pittsburgh, USA*
Contributed 15:30-15:45	**Manipulating electronic structure of novel correlated materials by tailoring superlattices** *Dawei Shen, SMIT, CAS, China*
Thu. Aug. 23rd 14:00-15:30	**Session: Th-S49 New SC Material-3 Room 5** *Chair: Robert Cava, Princeton Univ., USA*
Invited 14:00-14:20	**Robust Zero Resistance in Superconducting High Entropy Alloys against Pressure up to 190 GPa** *Liling Sun, Inst. of Physics, CAS, China*
Invited 14:20-14:40	**The Multi-gap Superconductivity, Pressure and Substitution Effect in $TlNi_2(Se,S)_2$** *Minghu Fang, Zhejiang Univ., China*
Invited 14:40-15:00	**Unconventional Superconductivity and Electronic Correlations in Pr-based "Cage Compounds"** *Carmen Almasan, Kent State Univ., USA*

Contributed 15:00-15:15	**Superconductivity in Novel Hexagonal BaPtAs with an Ordered Honeycomb Network** *Kazutaka Kudo, Okayama Univ., Japan*
Contributed 15:15-15:30	**Stabilization of $Sr_3Al_2O_6$ templates for ex-situ synthesis of superconducting freestanding $SrTiO_3$ membranes** *Danfeng Li, Stanford Univ., USA*
Thu. Aug. 23rd 14:00-15:55	**Session: Th-S50 Mott Physics-2 Room 6** *Chair: Guang-Ming Zhang, Tsinghua Univ., China*
Invited 14:00-14:20	**Engineering the Mott State of Cuprates for High-Temperature Superconductivity** *Johan Chang, Univ. of Zurich, Switzerland*
Invited 14:20-14:40	**Toward a first-principles description of stronger correlations: Stripe and magnetic phases in cupates to topological materials** *Arun Bansil, Northeastern Univ., USA*
Invited 14:40-15:00	**Spontaneous symmetry breaking of d-wave superconductivity in t-J model: unbiased finite sizes tensor network studies** *Yan Chen, Fudan Univ., China*
Invited 15:00-15:20	**Finite-temperature charge dynamics and the melting of the Mott insulator** *Tao Xiang, Inst. of Physics, CAS, China*
Invited 15:20-15:40	**Superconductivity in Doped Mott Insulators From a Dynamical Mean-Field Perspective** *André-Marie Tremblay, Univ. de Sherbrooke, Canada*
Contributed 15:40-15:55	**Do all underdoped Mott insulators have a pseudogap in two dimensions?** *Wei Wu, Ecole Polytechnique, France*
15:55-16:15	**Coffee Break 20 minutes**
Thu. Aug. 23rd 16:15-18:25	**Session: Th-S51 Cuprates Charge Order-2** *Chair: Arun Bansil, Northeastern Univ., USA*
Invited 16:15-16:35	**Commensurate to Incommensurate Transition of the Cuprate CDW** *Jennifer Hoffman, Harvard Univ., USA*

Invited 16:35-16:55	**Spin susceptibility of charge-ordered $YBa_2Cu_3O_y$** *Marc-Henri Julien, Grenoble, France*
Invited 16:55-17:15	**Charge Density Wave Order and Nematicity in Cuprate Superconductors probed via resonant x-ray scattering.** *David Hawthorn, Univ. of Waterloo, Canada*
Invited 17:15-17:35	**Study of Charge Dynamics and CDW in high-T_c cuprates via Resonant Inelastic X-ray Scattering** *Wei-Sheng Lee, Stanford Univ., USA*
Invited 17:35-17:55	**Spin excitations and charge order in superconducting cuprates studied by resonant inelastic x-ray scattering** *Giacomo Ghiringhelli, Politecnico di Milano, Italy*
Contributed 17:55-18:10	**Charge-Density-Wave Order and Pseudogap in Single Layered $Bi_2Sr_{2-x}La_xCuO_{6+\delta}$ Superconductor** *Shinji Kawasaki, Okayama Univ., Japan*
Contributed 18:10-18:25	**Universal Phonon Broadening near the Charge Order Q-vector in Bilayer Cuprate $Bi_2Sr_2CaCu_2O_{8+y}$** *Alex Frano, Univ. of California, San Diego, USA*
Thu. Aug. 23rd 16:15-17:55	**Session: Th-S52 IBS Material-2** *Chair: Markus Braden, Univ. of Cologne, Germany*
Invited 16:15-16:35	**Intertwined and vestigial electronic phases in hole doped $Sr_{1-x}Na_xFe_2As_2$** *Christoph Meingast, Karlsruhe Inst. of Tech., Germany*
Invited 16:35-16:55	**Intertwined Orders and Magnetic Degeneracy in Iron-Based Superconductors** *Rafael Fernandes, Univ. of Minnesota, USA*
Contributed 16:55-17:10	**Changing nature of superconductivity in FeS under pressure** *Harald Jeschke, Okayama Univ., Japan*
Contributed 17:10-17:25	**Microwave Surface Impedance and Complex Conductivity of $Ba(Fe_{0.926}Co_{0.074})_2As_2$ Single Crystals** *Mykola Cherpak, O. Usikov Inst. for Radiophysics and Electronics, Ukraine*
Contributed 17:25-17:40	**Frustrated Superconductivity close to the Lifshitz Transition in $Ba_{1-x}K_xFe_2As_2$** *Vadim Grinenko, TU Dresden, Germany*

Contributed 17:40-17:55	**Phase diagram of single-crystalline $Eu(Fe_{1-x}Co_x)_2As_2$ ($0 \le x \le 0.24$) grown by transition metal arsenide flux** *Gang Wang, Inst. of Physics, CAS, China*
Thu. Aug. 23rd 16:15-18:25	**Session: Th-S53 Topological State-2** *Chair: Guo-qing Zheng, Okayama Univ., Japan*
Invited 16:15-16:35	**Anomalous Magnetic Moments as Evidence of Chiral Superconductivity in Bi/Ni Bilayer** *Li Lu, Inst. of Physics, CAS, China*
Invited 16:35-16:55	**Doping-Induced Enhancement of the Superconducting T_c in the Crystalline Topological Insulator Tin Telluride** *Markus Kriener, Center for Emergent Matter Sci., Japan*
Invited 16:55-17:15	**Exploring superconductivity in layered topological materials** *Zhu-An Xu, Zhejiang Univ., China*
Invited 17:15-17:35	**Rotational Symmetry Breaking in a Trigonal Superconductor Nb-doped Bi_3Se_3** *Lu Li, Univ. of Michigan, USA*
Invited 17:35-17:55	**The fourth superconducting gap: intrinsic Bogoliubov Fermi surfaces** *Philip Brydon, Univ. of Otago, New Zealand*
Contributed 17:55-18:10	**Z_4 Topological Crystalline Superconductivity in UCoGe under pressure** *Akito Daido, Kyoto Univ., Japan*
Contributed 18:10-18:25	**Edge currents as a probe of the strongly spin-polarized topological noncentrosymmetric superconductors** *Alireza Akbari, APCTP, Korea*
Thu. Aug. 23rd 16:15-17:45	**Session: Th-S54 IBS Material-2** *Chair: Guanghan Cao, Zhejiang Univ., China*
Invited 16:15-16:35	**Unconventional superconductivity in Cr-based materials** *Jianlin Luo, Inst. of Physics, CAS, China*
Invited 16:35-16:55	**Discovery of several new superconductors in Cr/Mo related compounds with quasi-one-dimensional crystal structure** *Zhi-An Ren, Inst. of Physics, CAS, China*

Invited 16:55-17:15	**Possible high-Tc superconductivity in Ruddlesden-Popper compounds: incipient-narrow bands originating from "hidden-ladders"** *Kazuhiko Kuroki, Osaka Univ., Japan*
Contributed 17:15-17:30	**Temperature and angular dependence of the upper critical field in $K_2Cr_3As_3$** *Zengwei Zhu, Huazhong Univ. of Sci. and Tech., China*
Contributed 17:30-17:45	**Ferromagnetic p-wave Superconductors: Progress and Open Questions** *Jean-Pascal Brison, Univ. Grenoble-Alpes, CEA, France*
Thu. Aug. 23rd 16:15-18:00	**Session: Th-S55 BCS-BEC Crossover** *Chair: Qijin Chen, Zhejiang Univ., China*
Invited 16:15-16:35	**Preformed Pairs and BEC-BCS Crossover in Organic superconductors** *Kazushi Kanoda, Univ. of Tokyo, Japan*
Invited 16:35-16:55	**Thermodynamic studies on iron-chalcogenides Fe(Se,S) in the BCS-BEC crossover** *Yuta Mizukami, Univ. of Tokyo, Japan*
Invited 16:55-17:15	**Tuning across the BCS-BEC crossover in the multiband superconductor $Fe_{1+y}Se_xTe_{1-x}$: An ARPES study** *Amit Kanigel, Technion, Israel*
Contributed 17:15-17:30	**Dimensionality-Induced BCS-BEC Crossover** *Kyosuke Adachi, Kyoto Univ., Japan*
Contributed 17:30-17:45	**Weak Coupling Instability to Finite Momentum Superconductivity in the BCS to BEC Crossover** *Mats Granath, Univ. of Gothenburg, Sweden*
Contributed 17:45-18:00	**Gate-controlled low carrier density 2D superconductors toward BCS-BEC crossover** *Yuji Nakagawa, Univ. of Tokyo, Japan*

Friday, August 24th, 2018

08:30-10:05	**Parallel Oral Sessions : Fr-S56 – Fr-S60 Room 2-6**
10:05-10:25	**Coffee Break 20 minutes**
10:25-11:05	**Plenary 11: Progress on Superconducting Materials for High-Field Application in China Room 1** *Pingxiang Zhang, Northwest Insti. For Non-ferrous Metal Research, China* *Chair: Nanlin Wang, Peking Univ., China*
11:05-11:45	**Plenary 12: Progress on Quantum Critical Metals Room 1** *Erez Berg, Univ. of Chicago, USA* *Chair: Nanlin Wang, Peking Univ., China*
11:45-12:25	**Plenary 13: Tunable Superconductivity and Phase Transitions by Field Effect Transistor Room 1** *Xianhui Chen, Univ. of Sci. and Techn. of China, China* *Chair: Nanlin Wang, Peking Univ., China*
12:25-12:45	**Closing, Best Poster Awards and Next Congress Room 1** *Chair: Xingjiang Zhou, Inst. of Physics, CAS, China*

Fri. Aug. 24th 08:30-10:00	**Session: Fr-S56 Cuprates Dynamics** **Room 2** *Chair: Yuan Li, Peking Univ. , China*
Invited 08:30-08:50	**Robust Dynamical Charge Density Waves in High-Tc Superconducting Cuprates** *Marco Grilli, Univ. of Rome 'Sapienza', Italy*
Invited 08:50-09:10	**A Non-equilibrium Approach to the Optical Spectroscopy of Cuprates Superconductors** *Fulvio Parmigiani, Univ. of Trieste, Italia*
Invited 09:10-09:30	**Unconventional high field superconductivity in the underdoped copper-oxide T_c superconductors** *Suchitra Sebastian, Cavendish Lab., UK*
Contributed 09:30-09:45	**Scanning noise spectroscopy on a cuprate high temperature superconductor** *Doohee Cho, Leiden Univ., Netherlands*
Contributed 09:45-10:00	**NMR study of CDW order in $YBa_2Cu_3O_y$ under hydrostatic pressure** *Igor Vinograd, LNCMI, France*
Fri. Aug. 24th 08:30-09:45	**Session: Fr-S57 IBS Nematicity-2** **Room 3** *Chair: Yunkyu Bang, Pohang Univ.of Sci.and Techn. , Korea*
Invited 08:30-08:50	**Orbitals and Nematicity in La-1111 Single Crystals** *Bernd Kurt Buechner, IFW Dresden , Germany*
Invited 08:50-09:10	**Symmetry-breaking phenomena in iron-based superconductors** *Kyoko Ishizaka, Univ.of Tokyo, Japan*
Invited 09:10-09:30	**Orbital selectivity and nematicity in iron pnictides and chalcogenides** *Rong Yu, Renmin Univ. of China, China*
Contributed 09:30-09:45	**Abrupt Change of the Superconducting Gap Structure at the Nematic Critical Point of $FeSe_{1-x}S_x$** *Shigeru Kasahara, Kyoto Univ., Japan*

Fri. Aug. 24th 08:30-10:05	**Session: Fr-S58 2D SC TMD** **Room 4** *Chair: Minghu Fang, Zhejiang Univ. , China*
Invited 08:30-08:50	**Theory of the supercyclotron resonance and Hall response in anomalous 2d metals** *Sean Hartnoll, Stanford Univ. , USA*
Invited 08:50-09:10	**Unconventional superconducting phases in hole doped two dimensional transition metal dichalcogenides** *Vivek Aji, Univ. of California Riverside, USA*
Invited 09:10-09:30	**Mott Jahn-Teller insulating state in single layer 1T-$NbSe_2$** *Matteo Calandra, CNRS, France*
Invited 09:30-09:50	**Chiral and disordered polaron textures, metastability and carrier duality in systems with competing orders** *Dragan Mihailovic, Jozef Stefan Inst., Slovenia*
Contributed 09:50-10:05	**Transport study of superconducting-normal (SN) junctions at the surface of ionic gated MoS_2** *Qihong Chen, Univ. of Groningen, Netherlands*
Fri. Aug. 24th 08:30-10:00	**Session: Fr-S59 SC-organic** **Room 5** *Chair: Yan Chen, Fudan Univ.,China*
Invited 08:30-08:50	**Orbital Degeneracy, Mott-Jahn-Teller Insulators, and Strongly Correlated Superconductivity in Molecular Conductors, especially Fullerides** *Erio Tosatti, SISSA & ICTP, Italy*
Invited 08:50-09:10	**Crossover from impurity-controlled to granular superconductivity in $(TMTSF)_2ClO_4$** *Claire Marrache-Kikuchi, Paris-Sud Univ., France*
Invited 09:10-09:30	**Discovery of superconductivity in poly-p-phenylene oligomers** *Xiaojia Chen, HPSTAR, China*
Contributed 09:30-09:45	**Confined Superconductivity and Ferromagnetism in Boron Doped Diamond** *Tomas Samuely, P. J. Safarik Univ.in Kosice, Slovakia*

Contributed 09:45-10:00	**Interplay between electron-phonon and electron-electron interactions in electron doped aromatic carbon materials viewed from electrical transport probe** *Katsumi Tanigaki, AIMR - Tohoku Univ., Japan*
Fri. Aug. 24th 08:30-09:50	**Session: Fr-S60 New Developments** **Room 6** *Chair: Johan Chang, Univ. of Zurich, Switzerland*
Invited 08:30-08:50	**New Superconductors Tuned at High Pressures** *Changqing Jin, Inst. of Physics, CAS, China*
Invited 08:50-09:10	**Discovery of a New Cuprate with Unusual Features: Significance for High-T_c Physics** *Shin-ichi Uchida, Univ. of Tokyo, Japan*
Invited 09:10-09:30	**Onset of the photo-excited transient superconductivity and Nernst effect at the emergence of local phase coherence of preformed pairs** *Yasutomo Uemura, Columbia Univ., USA*
Invited 09:30-09:50	**Direct observation of symmetry-distinct states with nontrivial doping evolution in a high-T_c cuprate family by polarization-dependent angle-resolved photoemission** *Ruihua He, Westlake Inst. for Advanced Study, China*
10:05-10:25	**Coffee Break 20 minutes**
10:25-12:25	**Plenary 11, Plenary 12, Plenary 13** **Room 1**
12:25-12:45	**Closing and Best Poster Awards and Next Congress** **Room 1**

8.3 Poster Session

Monday Aug. 20th 12:05-14:00
Poster Session 1: Materials & Applications
Chair: Xianhui Chen, Univ. of Sci. & Techn. of China, China

Mo-1	Tomasz Klimczuk	Crystal growth and superconductivity in $CaBi_2$
Mo-2	Guo-Yi Zhu	Inter-valley chiral topological superconductivity in a graphene Moire superlattice
Mo-3	Jarosław Juraszek	Multiband effects in the filled skutterudites superconductors $PrOs_4Sb_{12}$ and $LaRu_4As_{12}$ probed by measurement of the lower critical field
Mo-4	Su-young Kim	Transport and Calorimetry Study of 20% La-doped $CeIn_3$
Mo-5	Lei Qiao	Ce_2O_2Bi: A New Heavy Fermion Compound with Topological Bismuth-Square Net
Mo-6	Wenhao Liu	Magnetization of Potassium Doped p-terphenyl and p-quaterphenyl by High Pressure Synthesis
Mo-7	Albert Guijarro	On the Characterization of the Main Phase in Kxp-terphenyl Systems
Mo-8	Tae-Ho Park	Superconductivity in K doped p-terphenyl : First principles calculations of electron-phonon coupling
Mo-9	Jose Antonio Verges	Stable Structural Phases of Potassium p-Terphenyl Compounds
Mo-10	Shin-Ming Huang	Prediction of quasi-one-dimensional topological superconductor $Tl_2{-}xMo_6Se_6$
Mo-11	Haiming Deng	Paramagnetic Resonances in Surface-Superconducting Topological Insulator Sb_2Te_3
Mo-12	Jie Zhang	Superconducting proximity effect in Bi_2Se_3/FeSe heterojunction films grown by RF magnetron sputtering
Mo-13	Beilun Wu	Upper critical field study in ferromagnetic superconductor UCoGe
Mo-14	Hirohito Aizawa	Electronic Band Structure and Superconducting Gap Symmetry in Organic Conductor λ-$(BETS)_2GaCl_4$

Mo-15	Xinwei Cai	High Performance MgB_2 Wires by in situ Powder-in-Tube Process with $Mg(BH_4)_2$
Mo-16	Chao Zhang	Griffiths Singularity of Superconductor-Insulator Transition in TiO Epitaxial Thin Films with Different Thicknesses
Mo-17	Yanwu Xie	High-temperature interface superconductivity in bilayer films grown by pulsed laser deposition
Mo-18	Ildar Abdyukhanov	Development and Research of HTS Materials in SC “Bochvar Institute”
Mo-19	Lihua Jin	Improved Structure and Superconducting Properties of YBCO Films with Nanoparticles Derived from Chemical Solution Deposition
Mo-20	Riccardo Arpaia	Robust Dynamical Charge Density Waves in $(Y,Nd)Ba_2Cu_3O_{7-\delta}$
Mo-21	Yue Zhang	Unprecedented High Irreversibility Line in Nontoxic Cuprate Superconductor $(Cu,C)Ba_2Ca_3Cu_4O_{11+\delta}$
Mo-22	Andrea Augieri	Synchrotron X-ray diffraction study of structural disorder in YBCO and composite YBCO films
Mo-23	Wei Hu	The two-gap feature in optimal electron-doped cuprates
Mo-24	Xiaoqing Zhou	Observation of Topological Surface State in High Temperature Superconductor MgB_2
Mo-25	Chuan Li	4pi- periodic Andreev bound states in a Dirac semimetal
Mo-26	Takuto Kawakami	Superconductivity in spin 3/2 topological insulators with carrier doping
Mo-27	Masanori Ichioka	D-vector Dependence of Local NMR Relaxation Rates T_1^{-1} and T_2^{-1} in the Vortex State of Chiral and Helical P-wave Superconductors
Mo-28	Guoqing Liu	Preparation of Bi-2212 high temperature superconductors with different precursor powders
Mo-29	Shusei Mizuta	STM/STS Study on Electronic Superstructures in High-T_c Cuprate $Bi_2Sr_2CaCu_2O_{8+x}$
Mo-30	Matteo Rossi	Incident-Energy Dependence of Lattice and Magnetic Excitations of $NdBa_2Cu_3O_6$ Measured by Resonant Inelastic X-Ray Scattering

Mo-31	Linfei Liu	Comparison of $BaZrO_3$ and $BaHfO_3$ dopants on the properties of YGBCO superconducting films grown by PLD
Mo-32	Ke Zhao	Co-existence of ferromagnetism and superconductivity in Bi_2Se_3-doped FeSe
Mo-33	Genki Kuwano	Effects of Cross-Section Profiles on Synchronization of Distributed Intrinsic Josephson Junctions in Cuprate High-T_c Superconductors for Coherent Terahertz Radiation
Mo-34	Jianxi Lan	Comparison of Ic variations between coated conductor and Bi-2223 samples at different temperatures and magnetic fields
Mo-35	Yoh Kohori	$^{63,65}Cu$ NMR studies of superconducting T'-$La_{1.8}Eu_{0.2}Cu_{4+\delta}$ with Nd_2CuO_4 structure
Mo-36	Ho Keun Lee	Tuning of the Superconductivity above 100 K in $TlSr_2CaCu_2O_7$ by Cation Substitutions
Mo-37	Kevin Kramer	Comprehensive Band Structure Study of Single-layer Cuprate Superconductors
Mo-38	Toshihiko Maeda	Phase Formation and Superconductivity in (Nb,Sn)$Sr_2RECu_2O_z$ (RE: rare-earth element, z≈8)
Mo-39	lijun cui	Preparation and Characterization of Bi-2223 Precursor Powder by Spray Pyrolysis Method
Mo-41	Manabu Tsujimoto	Design and Characterization of Microstrip Patch Antennas for Efficient Terahertz Radiation from BSCCO Intrinsic Josephson Junctions
Mo-42	Ziliang Li	Chemical Solution Derived $YBa_2Cu_3O_7$ Nanocomposite Films with Preformed $BaMO_3$ (M=Zr, Hf) Nanoparticles for Enhanced Superconducting Performances
Mo-43	Fang Li	Stresses and superconducting properties of $YBa_2Cu_3O_{7-x}$/(La,Sr)(Al,Ta)O_3, $YBa_2Cu_3O_{7-x}$/ $LaAlO_3$ and $YBa_2Cu_3O_{7-x}$/$SrTiO_3$ thin films
Mo-44	Rolf Walter Lortz	Thermodynamic evidence for a Fulde-Ferrell-Larkin-Ovchinnikov state in the iron-based superconductor KFe_2As_2
Mo-45	Zhongtang Xu	Transport Properties and Pinning Analysis for Co-doped $BaFe_2As_2$ Thin Films on Metal Tapes and Single Crystal Substrates

Mo-46	Wolfgang Stefan-Ludwig Drechsler	Electron-electron interaction, mass enhancement, band shifts and VAN HOVE singularities in hole overdoped $Ba_{1-x}K_xFe_2As_2$ and $CsFe_2As_2$ superconductors
Mo-47	Kyungwan Kim	Nematic and Magnetic Fluctuations in $Ba(Fe,Co)_2As_2$
Mo-48	Kosuke Nakayama	High-Resolution ARPES study of One-Monolayer FeSe Films on $SrTiO_3$: Dirac Semimetal and High-Temperature Superconducting Phases
Mo-49	Jixing Liu	Enhanced critical current density of Fe(Se, Te) superconducting bulks by Fluorine doping
Mo-50	Koshin Shigekawa	Superconducting Quasiparticles in Electron-Doped FeSe Thin Films Studied by High-Resolution ARPES
Mo-51	Kenji Kawashima	Superconducting properties of $(La,Na)AFe_4As_4$ (A = Rb, Cs) with 1144-type structure
Mo-52	Jia Yu	Characterization of the Single Crystalline Iron-based 112-type Parent Compound $EuFeAs_2$
Mo-53	Naoki Murai	Effect of electron correlations on spin excitation bandwidth in $Ba_{0.75}K_{0.25}Fe_2As_2$ as seen via time-of-flight inelastic neutron scattering
Mo-54	Zhe Cheng	Effect of wire diameter on the microstructure and Jc properties of $Ba_{0.6}K_{0.4}Fe_2As_2$ tapes
Mo-55	Evgeniia Sheveleva	Magnetic and Superconducting Properties of the Iron Arsenide Pnictides $Ba_{1-x}Na_xFe_2As_2$ as seen by Infrared Spectroscopy and Muon Spin Rotation
Mo-56	Huaxue Zhou	(Li,Fe)OHFeSe Superconductor: Ion-exchange Synthesis of Large Single Crystal and Mn Substitution
Mo-57	Ivan Veshchunov	Magnetic Flux Structure in Phosphorus-Doped $EuFe_2As_2$ Single Crystals
Mo-58	Ruijin Sun	Doping induced insulate transition in Superconductor $Ba_x(NH_3)_yFe_{2-z}S_2$
Mo-59	He Huang	Record Critical Current Density with Low Anisotropy in Highly-Textured 122 Iron-based Superconducting Tapes
Mo-60	Yanchang Zhu	Fabrication of superconducting joint between iron-based superconductor tapes

Mo-61	Shifa Liu	High Critical Current Density in Cu/Ag Composited Sheathed $Ba_{0.6}K_{0.4}Fe_2As_2$ Tapes via Hot Isostatic Pressing
Mo-62	Shifeng Jin	Structure and properties of new organic molecule intercalated FeSe superconductors
Mo-63	Fuyuki Nabeshima	Growth and Transport Properties of Fe(Se,S) thin films
Mo-64	Xiao Fan	Nematicity and high temperature superconductivity in an orthorhombic iron-based superconductor $Na_{0.35}(C_3N_2H_{10})_{0.426}Fe_2Se_2$
Mo-65	Zhongpei Feng	High throughput research to elucidate tunable superconductivity in FeSe
Mo-66	Wei Wu	Multiple magnetic transitions in single crystal $Ce_{12}Fe_{57.5}As_{41}$ and $La_{12}Fe_{57.5}As_{41}$
Mo-67	Linlin Zhao	The Superconducting Phase Diagram in $Li_x(C_2H_8N_2)_yFe_2Se_2$
Mo-69	Michal Babij	Search for Superconductivity in Ni^{2+} Doped $EuFe_2As_2$ at High Pressure
Mo-70	Kazuki Sato	New Alkaline-Earth-Metal- and Ethylenediamine-Intercalated FeSe-Based and $MoSe_2$-Based Superconductors
Mo-71	Tong Lin	Optical spectroscopy study of iron-based superconductor (Li,Fe)OHFeSe
Mo-72	Guanyu Chen	Highly Anisotropic Superconducting Gaps and BCS-like Critical Fluctuation in FeSe Single Crystal
Mo-73	Hai Lin	Multiband Superconductivity and Large Anisotropy in FeS Crystals
Mo-74	Xiaoming Ma	Superconductivity and Magnetism Study of Ruthenium-doped Iron Chalcogenides
Mo-75	Yulong Huang	Superconducting (Li,Fe)OHFeSe Film of High Quality and High Critical Parameters
Mo-76	Zhi-Cheng Wang	Transport properties and anisotropy of $CsCa_2Fe_4As_4F_2$ single crystals
Mo-77	Mengzhu Shi	Organic ion intercalated FeSe-based superconductors
Mo-78	Tianfeng Duan	Collective Vortex Pinning and Merging of the Irreversibility Line and Second Peak Effect in Optimally Doped $Ba_{1-x}K_xBiO_3$ Single Crystals

Mo-79	Xiyu Zhu	Structures and Physical Properties of $CsV_2Se_{2-x}O$ and V_2Se_2O
Mo-80	Wenhao Luo	Changed structure and properties of MgB_2 bulk superconductors with $Mg(BH_4)_2$ additions
Mo-81	Wanling Liu	Tailoring charge transfer and magnetism at interfaces of spin-orbit coupled oxide superlattices
Mo-82	Dongliang Gong	Coexistence and Competition between stripe and Neel antiferromagnetic order in highly Cr doped $BaFe_{1.9-x}Ni_{0.1}Cr_xAs_2$
Mo-83	Miao Meng	Structural and Transport Properties of FeTe Films
Mo-84	Chenguang Mei	High Quality Superconducting $FeSe_{0.5}Te_{0.5}$ Films Grown on $Pb(Mg_{1/3}Nb_{2/3})_{0.7}Ti_{0.3}O_3$ with Large Lattice Mismatch and Electric-field Modulation of Superconducting Transition
Mo-85	Yi Cui	Optimized Conditions for ionic-liquid-gating assisted protonation to search for high-T_c phases in iron-based superconductors
Mo-86	Shengnan Zhang	Fabrication of FeSe superconducting wires based on high-energy ball milling aided sintering process
Mo-88	Yu Dong	Anomalous transversal resistance in 122-type iron-based superconductors
Mo-89	Gang Mu	Growth and Physical Properties of CaFeAsF Single Crystals
Mo-90	Zhengtai Liu	Electron-plasmon interaction induced plasmonic-polaron band replication in epitaxial perovskite $SrIrO_3$ films
Mo-91	Hong Zhang	Improved superconductivity by increasing densityof MgB_2 perpared by hot-pressing
Mo-92	Qi Wang	The Effect of Sintering Temperature on Superconductivity of MgB_2 Prepared by Hot-pressing
Mo-93	Evgeny Mazur	Metallic hydrogen with a strong electron-phonon interaction at a pressure of 300-500 GPa
Mo-94	Agustin Conde-Gallardo	Temperature Dependence of the 182-, 201-, 210- and 285-cm^{-1} Raman modes of the $SmFeAsO_{1-x}F_x$ superconducting compounds
Mo-95	Salvatore Licciardello	Electrical resistivity across a nematic quantum critical point

Mo-96	Eduardo M. Bittar	Superconducting $La_3Co_4Sn_{13}$ Compound Under Pressure
Mo-97	Jian Zhang	Time-reversal symmetry breaking superconductivity in $(Pr,La)Pt_4Ge_{12}$
Mo-98	Yeting Shao	Enhanced Superconductivity in O Doped ThNiAsN
Mo-99	Yunjie Fan	Effect of Oxygen Content on the Superconductivity of Titanium Monoxide Films
Mo-100	Huixia Luo	S-shaped suppression of the superconducting transition temperature in Cu_xNbSe_2
Mo-101	Jian-gang Guo	2D Superconductivity from Dimerization of Atomically Ordered $AuTe_2Se_{4/3}$ Cubes
Mo-102	Qing-Ge Mu	Superconductivity Beyond 10 K in the Novel Quasi-one-dimensional Ternary Molybdenum Pnictides $A_2Mo_3As_3$ (A=K, Rb, Cs)
Mo-103	Vinh Hung Tran	Electronic properties of the noncentrosymmetric superconductor Th_7Fe_3
Mo-104	Fang Cheng	Improved Superconducting Properties in the $Mg^{11}B_2$ Low Activation Superconductor Prepared by Optimizing Microstructure
Mo-105	Jian Peng	Superconductivity and valence state in layered single-crystal $HfAs_{1.67}Te_{0.12}$
Mo-106	Yanpeng Qi	Superconductivity in alkaline earth metal–filled skutterudites $Ba_xIr_4X_{12}$ (X = As, P)
Mo-107	Dan Xi	Superconducting and Mechanical Properties of 18-filament MgB_2 Long Wire Prepared by in-situ Method
Mo-108	Takashi Kambe	Electrochemical Li-intercalation to $KSr_2Nb_3O_{10}$ and $NaSr_2Nb_3O_{10}$
Mo-109	Qiang Guo	Study on High Jc and Low AC Losses NbTi/$Cu_{0.5}$Mn Superconducting Wire for HIAF Magnets
Mo-110	Gareoung Kim	Superconductivity properties of $Ta_{1/6}Nb_{2/6}Hf_{1/6}Zr_{1/6}Ti_{1/6}$ high entropy alloy
Mo-111	Pierre Bonnet	Superconducting Silicon Resonators
Mo-112	Jianjun Ying	Fermi surface reconstruction in 2H-$TaSe_2$ under high pressure mediated by interlayer interaction

Mo-113	Katsuhiro Suzuki	A possibility of anisotropic s-wave pairing in BiS_2 layered superconductors
Mo-114	Zhi Ren	Possible unconventional superconductivity in SnSb with natural superlattice structure
Mo-115	Hua Bai	Superconductivity in misfit layered compound $(SnSe)_{1.16}(NbSe_2)$
Mo-116	Xiang Liu	Possibly Better Superconductivity at Domain Boundaries in Two-Dimensional α-Mo_2C Crystals
Mo-117	Ryota Sogabe	BiS_2-based layered superconductors with high-entropy-alloy-type blocking layers
Mo-118	Ke Zhang	Performance Improvements to Bronze Processed Nb_3Sn Strands
Mo-119	Qing-Ge Mu	Superconductivity in several Quasi-one-dimensional Ternary chromium Pnictide compounds
Mo-120	Chang-geun Oh	Time-Dependent Reentrant Superconductivity in the Nonequilibrium state of KBi_2
Mo-121	Yuki Saito	Discovery of Superconductivity in BaPtSb with a Noncentrosymmetric Structure
Mo-122	Guobao Li	Superconductivity in Perovskite $Ba_{1-x}Ln_x(Bi_{0.20}Pb_{0.80})O_{3-\delta}$ (Ln= Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu)
Mo-123	Xiao Lin	A Ferroelectric Quantum Phase Transition Inside the Superconducting Dome of $Sr_{1-x}Ca_xTiO_{3-\delta}$
Mo-124	Sandra Karlsson	New Superconducting Phases in the Nb-Pd-(Se/S) System
Mo-125	Yury Karasev	The Superconducting NbTi Wire for Coils of the Superconducting Dipole Magnet for CBM Experiment at FAIR
Mo-126	Frederico B. Santos	Existence of Superconductivity in $FeGa_3$ with Mo Substitution
Mo-127	Haoran Liu	The effect of graphene coated Si, Ti and Nb addition on the superconducting properties of MgB_2 bulks
Mo-128	Jianqing Feng	Fabrication and properties of 19-filamentary MgB_2 Superconducting wires
Mo-129	Xu Chen	Superconductivity in layered CuAs-based oxyarsenides

Mo-130	Lucas E. Corrêa	Superconductivity in a new ternary compound of the Ta-Zr-B system
Mo-131	Jefferson Machado	Investigation of a new hexagonal superconducting Laves phase in the ternary system Hf-V-Ga
Mo-132	Mário Sérgio da Luz	Superconductivity in $Zr_3V_2Ga_4$ with superconducting critical temperature close to 11 K
Mo-133	Yoshikazu Mizuguchi	Crystal structure and physical properties of new layered oxychalcogenide $La_2O_2M_4S_6$ (M = Bi, Pb, Ag, Cd)
Mo-134	Darren C. Peets	Superconductivity with First-Order Upper Critical Field in an Aluminum Cage Compound
Mo-135	Goto Yosuke	$NaSn_2As_2$: a representative of a novel family of van der Waals-type superconductors
Mo-136	Karolina Górnicka	Superconductivity in the intermetallic Ce-based compound $CeIr_3$
Mo-137	Zhihe Wang	Superconducting origin from BaO_2-plane in $BaPb_{1-x}Bi_xO_{3-d}$
Mo-138	ShuChun Huan	Evidence for a magnetic topological semimetal in CeBi from magnetotransport and magnetic measurements
Mo-139	Jin Si	Pressure Induced Superconductivity in the New Compound $ScZrCo_{1-\delta}$
Mo-140	Lina Sang	In-situ hydrostatic pressure induced significant suppression of magnetic relaxation and enhancement of flux pinning in $Fe_{1-x}Co_xSe_{0.5}Te_{0.5}$ Single Crystals
Mo-141	Xinsheng Yang	Non-destructive evaluation of critical current on Bi-2212 cable
Mo-142	Alexander J. G. Lunt	Residual Stress Quantification in Nb_3Sn Thin Films for Superconducting Radio Frequency Applications
Mo-143	Bin Xiang	Simulation of Quench and Recovery Characteristics of YBCO Coated Conductors in Three-Dimension of DC Resistive Superconducting Fault Current Limiters
Mo-144	Jie Li	Activities of Chinese National Technical Committee on Superconductivity
Mo-145	Chang Xin Chi	Numerical Simulation on Improving Stability of Magnetic Field of Persistent Current Mode 2G HTS Coils

Mo-146	Jae Hyun Yun	Enhancement of the electronic thermoelectric properties by charge density wave order
Mo-147	Xin Sheng	Experimental and Numerical Study of Wireless Power Transfer System Using High Temperature Superconducting Coils
Mo-148	Sansheng Wang	Design and analysis of new hybrid magnetic shielding system: application for magnetic nondestructive testing of circuit
Mo-149	Chiheng Dong	Critical current and superconducting phase homogeneity in FeAs-122 superconducting tapes
Mo-150	Hui Dong	Multichannel Ultralow Field Magnetic Resonance Imaging Study Ultilizing Low-T_c SQUIDs
Mo-151	Xiaoming Xie	Practical low-T_c SQUID Systems for Geophysics Applications
Mo-152	Shi Chen	Surfaces smoothing for enhancing superconducting properties of NbN nanowires by ion beam figuring
Mo-153	Qingyu Hu	High Temperature Superconducting Magnets in PCS Mode
Mo-154	Qingyu Hu	Stability of Superconducting Magnet and Wire insulations
Mo-155	Feng Li	Ferromagnetic Josephson Junctions Based on Epitaxial NbN/NiCu/NbN Trilayer
Mo-156	Xu Tao	High Speed Superconducting Nanowire Single-Photon Detector with the Capability of Photon-Number-Resolving
Mo-157	Qiyu Zhang	Effect of Thickness on Superconducting properties for Epitaxial NbN Films
Mo-158	Zigeng Huang	Temperature Dependence of Critical Current in YBCO Step-Edge Josephson Junctions
Mo-159	Jinbao Jiang	Memristor Behavior of 2D FeTe with High Temperature Phase Instability
Mo-160	Bing Shen	The vortex physics and critical current density in $Ca_{10}(Pt_nAs_8)(Fe_{2-x}Pt_xAs_2)_5$ and $Ca_{0.74}La_{0.26}(Fe_{1-x}Co_x)As_2$
Mo-161	Jeremy Brisbois	Statistics of Magnetic Field Threshold for Triggering Flux Avalanches in Nb Superconducting Films
Mo-162	Agustin Conde-Gallardo	Particle Size Effects on the Magnetic Properties of the $SmFeAsO_{1-x}F_x$ Superconductors.
Mo-163	Ryo Ogawa	Direct Current Measurement of Hall Effect in the Mixed State for the Iron-chalcogenide Superconductors

Mo-164	Yajun Yan	Direct Visualization of the Nematic Superconductivity in $Cu_xBi_2Se_3$
Mo-165	Lingyuan Kong	Evidences of Majorana Bound States in Fe(Te,Se) superconductor

Tuesday Aug. 21st 12:05-14:00
Poster Session 2: Experiments-1
Chair: Fuchun Zhang, Univ. of CAS, China

Tu-1	Arnab Roy	Study of the Superconductor–Insulator quantum phase transition using Nernst effect
Tu-2	Graham Baker	Ultra-long-lived quasiparticles in FeSe revealed by broadband microwave spectroscopy
Tu-3	Xuchen Nie	Coexistence and Competition between Pseudogap and Superconducting Quasiparticles in Underdoped $Bi_2Sr_2CaCu_2O_{8+\delta}$ by Ultrafast Time-resolved Optical Reflectivity
Tu-4	Bing Xu	Electron-phonon coupling in iron-based superconductors and its correlation with T_c
Tu-5	Lichen Wang	Electronic and structural instabilities in underdoped Hg-based high-T_c cuprates
Tu-6	Shun Asano	Reduction annealing effects on crystal structure studied by multiple structure analysis in T'-type copper oxide Pr_2CuO_4
Tu-7	Yuan Wei	Spin excitation of quasi-1D superconductor $BaFe_2S_3$
Tu-8	Wenliang Zhang	Unconventional Antiferromagnetic Quantum Critical Point in an Iron Pnictide
Tu-9	Tao Xie	Neutron Spin Resonance in the 112-Type Iron-Based Superconductor
Tu-10	Die Hu	Structure of spin excitations in heavily electron-doped $Li_{0.8}Fe_{0.2}ODFeSe$
Tu-11	Shilong Wu	Direct evidence of hidden local spin polarization in centrosymmetric superconductor $LaO_{0.55}F_{0.45}BiS_2$
Tu-12	John Collini	Magnetic Quantum Critical Points Free From Phase Interference in $Fe_{1-x}Co_xAs$ and $Fe_{1-x}Co_xP$
Tu-13	Qiuyun Chen	Tracing crystal-field splittings in the heavy-fermion superconductor $CeIrIn_5$

Tu-14	Peng Zhang	Topological Insulator and Dirac Semimetal States in Iron-based Superconductors
Tu-15	Timur Kim	Scaling of the Superconducting Gap with Orbital Character in FeSe
Tu-16	Yaomin Dai	Infrared Probe of the Gap Evolution across the Phase Diagram of $Ba_{1-x}K_xFe_2As_2$
Tu-17	Sijie Zhang	Photoexcitation-induced New Metastable State with Modulated Josephson Coupling Strengths in Electron-doped Cuprate $Pr_{0.88}LaCe_{0.12}CuO_4$
Tu-18	Morten Eskildsen	Using Vortices to Probes the Unconventional Superconductivity in UPt_3
Tu-19	Chennan Wang	Existence of the superconductivity cooperative hidden phase with orbital polarization in $Sr_{0.64}Na_{0.36}Fe_2As_2$ superconductor
Tu-20	Wenjing Ban	Revealing pseudogap in $Sr_3(Ru_{0.985}Fe_{0.015})_2O_7$ by optical spectroscopy study
Tu-21	Motoyuki Ishikado	High energy spin fluctuations on iron-based superconductor $LaFePO_{0.9}$
Tu-22	Jinchen Wang	Neutron diffraction study on magnetic structures and transitions in $Sr_2Cr_3As_2O_2$
Tu-23	Juanjuan Liu	Phase Diagram of the Newly Discovered Superconductors $TlNi_{2-x}Co_xSe_2$ Investigated by Neutron Diffraction
Tu-24	Peng Cheng	Avoided Quantum criticality and Spin glass in V-doped $BaFe_2As_2$
Tu-25	Muhamad Darwis Umar	An Approach from μSR to Pseudogap States in Underdoped $La_{2-x}Sr_xCuO_4$
Tu-26	Yong Hu	Distinct Parent Phase and Doping Evolution to Superconductivity in Single-Layer FeSe/$SrTiO_3$ Films
Tu-27	Jianwei Huang	Formation of Coherent Superconducting State from Incoherent Normal State in Optimally-Doped $Ba_{0.6}K_{0.4}Fe_2As_2$ Superconductor
Tu-28	Jianqiao Meng	ARPES investigation of electronic structure of Ce-based heavy fermion $CePt_2In_7$
Tu-29	Ryan Day	Spin-Orbit Coupling in Iron-Based Superconductors via Spin-ARPES

Tu-30	Linjun Li	Quantum metallic state in 2D superconductor with intrinsic electronic phase inhomogeneity
Tu-31	Jian Li	Orbital Order and Spin Nematicity in FeSe
Tu-32	Shunjiao Li	(π,π) spin fluctuation and pseudogap behavior in $(CTA)_{0.3}FeSe$ superconductor
Tu-33	Shusei Onishi	Impurity Effects on Ferromagnetic Fluctuations in Heavily Overdoped Bi-2201 Cuprates
Tu-34	Yanling Wu	Ultrafast Dynamics Evidence of High Temperature Superconductivity in Single Unit Cell FeSe on $SrTiO_3$
Tu-35	Tong Lin	The energy gap and amplitude mode in charge-density-wave superconductor $Bi_2Rh_3Se_2$
Tu-36	Kai Wang	Mott Transition and collective charge pinning in electron doped Sr_2IrO_4
Tu-37	Xiao Ren	Raman Scattering Study of Phase Transitions in Correlated-Electron Materials
Tu-38	Run Yang	Insulator-to-superconductor transition in highly two-dimensional iron-based superconductor $(CaFe_{1-x}Pt_xAs)_{10}Pt_3As_8$
Tu-39	Ping Ai	A New Prospect of Bilayer Splitting Bands by ARPES based on Time-of-Flight
Tu-40	Li Yu	Laser ARPES study on competition between the CDW and superconducting order in the Se doped $ZrTe_3$
Tu-41	Cheng Hu	Evidence for Multiple Underlying Fermi Surface and Isotropic Energy Gap in the Cuprate Parent Compound $Ca_2CuO_2Cl_2$
Tu-42	Mingquan He	Evidence for short-range magnetic order in the nematic phase of FeSe from anisotropic in-plane magnetostriction and susceptibility measurements
Tu-43	An Wang	Nodeless Superconductivity in the Caged Compound Lu5Rh6Sn18 with Broken Time Reversal Symmetry
Tu-44	Mudassar Nazir	Enhancement of Critical Current Density in Helium Ion irradiated $Ba(Fe,Co)_2As_2$ Thin Films
Tu-45	Nan Xu	Evidence of Coulomb interaction induced Lifshitz transition and possible robust hybrid Weyl fermion in superconductor Td $MoTe_2$

Tu-46	Tianlun Yu	On the Tc enhancement mechanism at the FeSe/$SrTiO_3$ interface
Tu-47	Cong Li	Orbital Origin of Extremely Anisotropic Superconducting Gap in Nematic Phase of FeSe Superconductor
Tu-48	Ying Ding	Laser-ARPES Study on Electron Scattering in Extremely Overdoped Bi2201 Superconductor
Tu-49	Ayumu Takahashi	Comparison between Effects of 1.19 GeV Pb and 320 MeV Au Irradiations on Critical Current Density in $Ba_{0.6}K_{0.4}Fe_2As_2$
Tu-51	Xiang Li	Demonstration of the Photon-number Resolving and Spatial Resolution Detector with High Input Impedance Cryogenic RF Amplifier
Tu-52	Qiang Gao	The Electronic Structure of Bi2212 Measured By Laser-based ToF-ARPES
Tu-53	Jing Liu	Growth, characterization and electronic structure measured by new generation laser-based ARToF of high temperature superconductor $Bi_{2-x}Pb_xSr_2CaCu_2O_{8+\delta}$
Tu-54	Haoxiang Li	Spectroscopic Evidence of Low Energy Gaps Persisting Towards 120 Kelvin in Surface-Doped p-Terphenyl Crystals
Tu-55	Tao Hu	Double quantum criticality in superconducting tin-arrays/graphene hybrid
Tu-56	Bora Won	Doping study of quasi-one-dimensional S=1/2 Heisenberg antiferromagnetic spin system $Sr_{2-x}(PbCl_2)_xCu(BO_3)_2$
Tu-57	Sunseng Pyon	Effects of particle irradiation on critical current density in $CaKFe_4As_4$ single crystals
Tu-58	Itai Keren	Defect-assisted Tunneling and Compressibility Measurements in Graphene-hexagonal Boron Nitride Stacked Devices.
Tu-59	Lev Levitin	Tuning Pair-Breaking at the Surface of Topological Superfluid Helium-3
Tu-60	Lev Levitin	Spatially-Modulated States in Superfluid Helium-3 under Confinement
Tu-61	Kehuan Linghu	The application of HTS rf SQUID in ultra low field NMR system
Tu-62	Changsheng Chen	The coexistence of superconductivity and magnetism in $NdO_{0.5}F_{0.5}BiS_2$: A muon spin rotation study

Tu-63	Ce Huang	Inducing strong superconductivity in WTe_2 by proximity effect
Tu-64	Chenhaoping Wen	Unveiling the superconducting mechanism of $Ba_{0.51}K_{0.49}BiO_3$
Tu-65	Minoru Nohara	Giant Phonon Softening and Enhancement of Superconductivity Induced by Copper/Phosphorus Doping of $BaNi_2As_2$
Tu-66	L.B. Wang	Optimization, Preparation and Characterization of Nanowires for High Efficiency Superconducting Nanowire Single Photon Detector
Tu-67	Yuting Shao	Evidence of line-nodes in superconducting gap function in $K_2Cr_3As_3$ from specific heat measurements
Tu-68	Kenji Ishida	NMR studies on the magnetic fluctuations in the artificial heavy-fermion superlattices of $CeCoIn_5/YbCoIn_5$ and $CeCoIn_5/YbCoIn_5$
Tu-69	Dan Zhao	Breakdown of single spin-fluid model in the heavily hole-doped superconductor $CsFe_2As_2$
Tu-70	Shengli Guo	μSR investigation of quasi-one-dimensional superconductor $K_2Cr_3As_3$
Tu-71	Cheng Tan	Nodal superconductivity coexists with low-moment static magnetism in single-crystalline tetragonal FeS
Tu-72	Liran Wang	Large nematic susceptibility in the double-Q C4 magnetic phase of $Ba_{1-x}Na_xFe_2As_2$
Tu-73	Aviv Glezer Moshe	Single level and multi-level Kondo effects in granular Aluminum films
Tu-74	Yumika Aikawa	Metal Induced Superconductivity between Metalic Ti and MoS_2
Tu-75	Ryosuke Ishiguro	Magnetic Interference Effects on Differential Conductance Curve of SNS Junction Made of a Metallic Channel in Zinc Oxide based Electrical Double Layer Transistor (N) Sandwiched between two Superconducting Niobium
Tu-76	Zhenping Wu	Critical Temperature Enhancement From Quantum Confinement in $Nb_xSrTi_{1-x}O_3$ Thin Films
Tu-77	Zhenping Wu	Probing Quantum Confinement and Electronic Structure at Polar Oxide Interfaces
Tu-78	Sven Badoux	Transport measurements of underdoped $YBa_2Cu_3O_{7-x}$ under high pressure and magnetic field

Tu-79	Wenjun Kuang	Anomalous Surface Magnetisation in Nonsymmorphic Single Crystal Superconductor In_2Bi
Tu-80	Yufeng Wu	Superconducting Proximity and Electric Field Effect on Monolayer Graphene/Single-unit-cell Cuprate Superconductor $Bi_2Sr_2CaCu_2O_{8+x}$ Van der Waals Heterostructure
Tu-81	Xia Lou	The Electronic Structure of $LaIn_3$ and $CeIn_3$ films
Tu-82	Shuki Wolfus	AC losses in superconducting wires and tapes - a comparative study of the behavior in $Sr_{0.6}K_{0.4}Fe_2As_2$ and MgB_2
Tu-83	Haijing Zhang	Tunneling spectroscopy of gate-induced superconductivity in MoS_2
Tu-84	Yifei Fang	Electronic Structure in the Antiferromagnetic State of Ni-doped $TlCo_2Se_2$
Tu-86	Ying Wang	Impurity Effects on the Superconductivity in $LaO_{0.5}F_{0.5}BiS_2$
Tu-87	Tatiana Charikova	Manifestation of charge carriers and vortex systems incoherence in electron-doped cuprates
Tu-88	Jun Li	Nematic superconducting state in the 122-type superconductors
Tu-89	Yi Liu	Interface induced Zeeman-protected superconductivity in ultrathin crystalline lead films
Tu-90	Zihao Zhu	TF-μSR Study on Noncentrosymmetric Superconductor $PbTaSe_2$
Tu-91	Shu Cai	Universal Pressure Dependent Superconductivity Phase Diagrams for Tetradymite Topological Insulators

Wednesday Aug. 22nd 12:05-14:00
Poster Session 3: Experiments-2
Chair: Nanlin Wang, Peking Univ., China

We-1	Huiqian Luo	Spin Excitations in the New Iron-Based Superconductor $CaKFe_4As_4$
We-2	Irene Battisti	Universality of Pseudogap and Emergent Order in Lightly Doped Mott Insulators
We-3	Masahiro Haze	STM/STS measurements on heavy fermion $CeRhIn_5$ thin films
We-4	Ge He	Tunneling spectroscopy study of several essential issues in unconventional superconductors and development of combi-LMBE-STM system

We-5	Stepan Pryanichnikov	Crystal and Electronic structure of HTSC cuprates and related Antiferromagnetic Phases as Function of Temperature
We-6	Qi Huang	A full superconducting gap in noncentrosymmetric Re_6Hf by point-contact Andreev reflection spectroscopy
We-7	Jun Lu	Development of sensitive 3D vector VSM and applications to characterization of HTSC
We-8	Chunguang Wang	Orbital order and quantum nematic fluctuations in $NaFe_{1-x}Co_xAs$
We-9	Jun Luo	Structural phase transition, precursory electronic anomaly, and strong-coupling superconductivity in quasi-skutterudite $(Sr_{1-x}Ca_x)_3Ir_4Sn_{13}$ and $Ca_3Rh_4Sn_{13}$
We-10	Gehui Zhang	NMR study on $Sr_xBi_2Se_3$
We-11	Suci Winarsih	Reduction in Néel Temperature of Nanocrystalline La_2CuO_4 Probed by μSR and NMR
We-12	Anaelle Legros	T-linear Resistivity and Planckian Limit in Overdoped Cuprates
We-13	Hodaka Kurokawa	AC Resistance of Driven Vortices in a Superconductor Measured by Microwave Technique
We-14	Erjian Cheng	Nodeless superconductivity in the SnAs-based van der Waals type superconductor $NaSn_2As_2$
We-15	Yanxing Yang	Coexistence of Static Magnetism and Superconductivity in $Pr(O_{0.5}F_{0.5})BiS_2$ as Revealed by Muon Spin Rotation/Relaxation
We-16	Jie Yang	Structural Phase Transition, Antiferromagnetism and Two Superconducting Domes in $LaFeAsO_{1-x}F_x$ ($0 < x \leq 0.75$)
We-17	Zheng Li	Gapped Spin-1/2 Excitations in a Kagome Quantum Spin Liquid Compound $Cu_3Zn(OH)_6FBr$
We-18	Zhaofeng Ding	Continuous Change of Landau Renormalizations of Superfluid Density in Heavy Fermion Superconductors $Ce_{1-x}Yb_xCoIn_5$
We-19	Faji Xie	The quantum Hall effect and scaling law in bulk-insulating Sn doped $BiSbTe_2S$ devices
We-20	Yeyu Huang	Multigap Nodeless Superconductivity in $CsCa_2Fe_4As_4F_2$ Probed by Heat Transport
We-21	Harim Jang	Transport Property of Ferromagnetic Superconductor Y_9Co_7 under Pressure

We-22	Yong Zhong	Atomic visualization of copper oxide structure in infinite-layer cuprate $SrCuO_2$
We-23	Ankit Kumar	Magneto-Optical Imaging of Vortex Lattice Melting at Low Fields in the Presence of Disorder in a $Ba_{0.6}K_{0.4}Fe_2As_2$ Single Crystal
We-24	Hinako Murayama	Diagonal Nematicity in the Pseudogap Phase of Hg1201
We-25	Kazuhisa Hoshi	Se Isotope Effect in The Layered $BiCh_2$-Based(Ch = S,Se) Superconductor $LaO_{0.6}F_{0.4}Bi(S,Se)_2$
We-26	Stephen Edkins	The SQCRAMscope: Scanning Quantum Cryogenic Atom Microscope
We-27	Li Liu	Irradiation of Gd-doped YBCO Coated Conductors by Ar Ions
We-28	Jian Li	A 5K high voltage electrical breakdown measuring system incorporating a Gifford-McMahon cryocooler
We-29	Cun Xue	Flexible Vortex Ice and Vortex Ice-like Systems in Tailor-made Nanostructured Superconductors
We-30	Huaqian Leng	Type-I Superconductivity with an Unusual Surface State in the Dirac Semimetal $PdTe_2$
We-31	Runze Yu	Absence of Local Fluctuating Dimers in Superconducting $Ir_{1-x}(Pt, Rh)_xTe_2$
We-32	Junyi Ge	Nanoscale assembly of superconducting vortices with STM tip
We-33	Tian Le	Point-contact Andreev Reflection Spectroscopy Study on the Noncentrosymmetric Superconductor $PbTaSe_2$
We-34	Feng Qin	Superconductivity in a Chiral WS_2 Nanotube
We-35	Haruhisa Kitano	Quantum Phase Escape from Finite Voltage State of $Bi_2Sr_2Ca_{1-x}Y_xCu_2O_y$ Intrinsic Josephson Junctions
We-36	Desheng Wu	Transport behavior of possible SC material LaX series.
We-37	Liguo Ma	Visualizing the Electronic Structure of Thin Layers of Cuprates
We-38	Yi-Min Zhang	Experimental Exploration of Interface Superconductivity in Epitaxial $SnSe_2$ Films
We-39	Xintong Li	Quasiparticle interference and charge order in a heavily overdoped non-superconducting cuprate

We-40	Gael Grissonnanche	Large Negative Thermal Hall Response Inside the Pseudogap Phase of Cuprates
We-41	Satoshi Demura	Observation of Supermodulation in $LaO_{1-x}F_xBiSe_2$ by Scanning Tunneling Microscopy/Spectroscopy
We-42	Shun Ohta	STM Observation of Charge Density Wave States in 2H-$TaS_{2-x}Se_x$
We-43	Mingyang Chen	Superconductivity with Twofold Symmetry in $Bi_2Te_3/FeTe_{0.55}Se_{0.45}$ Heterostructures
We-44	Koki Kawabata	Reduction Annealing and Electronic States in Single Crystals of T'-Cuprate $Pr_2CuO_{4+\delta}$
We-45	Zuyu Xu	Tunable Josephson junction based on black phosphorus
We-46	Yupeng Li	Superconductivity and charge-density wave in iodine-doped nodal-line semimetal In_xTaSe_2
We-47	Chen Chen	Superconducting Proximity Effect of Bi (110) Films on $NbSe_2$ Substrate Studied by STM
We-48	Beilun Wu	22 T superconducting magnet for scanning tunneling microscopy at dilution refrigeration temperatures
We-49	Qin Liu	STM Investigation of the Field-induced Magnetic Phase Transitions in CeSb
We-50	Zhenhai Yu	Pressure-induced isostructural phase transition and charge transfer in FeSe
We-51	Xiu-Zhi Duan	Hopping Conductance and Dissipation Effect in Three Dimensional $Pb_x(SiO_2)_{1-x}$ Granular Films
We-52	Ying Xing	Ising Superconductivity and Quantum Phase Transition in Macro- Size Monolayer $NbSe_2$
We-53	Amirreza Ataei	Evolution of pseudogap phase under pressure and endpoint of CDW in Nd-LSCO probed by transport measurements
We-54	Chaofei Liu	Detection of bosonic mode as a signature of magnetic excitation in one-unit-cell FeSe on $SrTiO_3$
We-55	Xi Liu	Scanning tunneling microscopy study of the Hidden Order in heavy fermion material URu_2Si_2
We-56	Ivan Maggio-Aprile	A high T_c Superconductor Reveals Caroli-de Gennes-Matricon Vortex States

We-57	Seyed Amirreza Ataei	Pressure tuning the pseudogap critical point: evidence from Seebeck and Nernst effect
We-58	Zhenhua Chi	Superconductivity in Pristine 2Ha-MoS_2 at Ultrahigh Pressure
We-59	Jian Chen	Heavy fermion quantum criticality at dilute carrier limit in $CeNi_{2-\delta}(As_{1-x}P_x)_2$
We-60	Yanpeng Qi	Pressure-induced superconductivity and topological quantum phase transitions in a quasi-one-dimensional topological insulator: Bi_4I_4
We-61	Hao Su	High magnetic field magnetotransport and ARPES measurements on a magnetic semimetal $EuCd_2Sb_2$
We-62	Marcin Matusiak	Thermoelectric anisotropy in $Ba(Fe_{1-x}Co_x)_2As_2$ iron-based superconductor
We-63	Kyoung Seok Lee	STM Studies of Density Modulations in the Pseudogap State of $Bi_2Sr_2CaCu_2O_{8+\delta}$
We-64	Ran Tao	Superconductivity across Lifshitz transition and anomalous insulating state in surface K–dosed $(Li_{0.8}Fe_{0.2}OH)FeSe$
We-65	Huan Yang	Drive the Dirac Electrons into Cooper Pairs in Possible Topological Superconductor $Sr_xBi_2Se_3$
We-66	Siyuan Wan	Sign Reversal Superconducting Gap Revealed by Phase Referenced Quasi-particle Interference in $(Li_{1-x}Fe_x)OHFe_{1-y}Zn_ySe$ and $Bi_2Sr_2CaCu_2O_{8+\delta}$
We-67	Xiaoyu Chen	Discrete Energy Levels of Caroli-de Gennes-Matricon States in Quantum Limit Due to Small Fermi Energy in $FeTe_{0.55}Se_{0.45}$
We-68	Qiangqiang Gu	Determination of the Sign Reversal Superconducting Gaps on $(Li_{1-x}Fe_x)OHFe_{1-y}Zn_ySe$
We-69	Jing Guo	Electron-Hole Balance and the Anomalous Pressure-Dependent Superconductivity in Black Phosphorus
We-70	Roland Schäfer	Influence of persistent photoconductivity on superconductivity in the STO/LAO interface
We-71	Masahiro Naritsuka	Tuning the Pairing Interaction in a d-Wave Superconductor by Paramagnons Injected through Interfaces
We-72	Masahiro Haze	Impurity Effect in Heavy Fermion Superconductors Studied by STM

We-73	Zhixin Liu	Gap structure evolution in $Ba_{1-x}K_xFe_2As_2$ single crystals studied by point-contact Andreev reflection spectroscopy
We-74	Hong Xiao	Superconductivity in half-Heusler compound TbPdBi
We-75	Hiroyoshi Nobukane	High-Tc superconductivity in a ruthenate
We-76	Xiangzhuo Xing	Correlation between non-Fermi-liquid behavior and superconductivity in (Ca, La)(Fe,Co)As_2 iron arsenides: A high-pressure study
We-77	Yuki Itahashi	Nonreciprocal Transport by Vortex Ratchet Motion in 2D Superconducting MoS_2
We-78	Kousuke Ishida	Unusual Evolution of Electronic Nematicity in the Heavily Hole-Doped $Ba_{1-x}Rb_xFe_2As_2$
We-79	Marcin Konczykowski	Disorder induced switching from antiferromagnetic to paramagnetic ground state in under doped iron-based superconductors
We-80	Sixiao Ma	Half-integer Thermal Hall Effect in α-$RuCl_3$: a signature of Majorana fermions
We-81	Wanghao Tian	Observation of phase-sensitive symmetry gap for Fe-based superconductors from Nb/Al/$Ba_{1-x}K_xFe_2As_2$ hybrid Josephson junction
We-82	Yanpeng Song	Gate-Induced Superconductivity in SnX_2
We-83	Xu Zhang	Magnetic Field Induced Ordering in Electron-doped Cuprate $La_{2-x}Ce_xCuO_{4\pm\delta}$
We-84	Zhao-Yu Liu	Interplay between nematic fluctuations and superconductivity in $BaFe_{2-x}Ni_xAs_2$
We-85	Yanhong Gu	Nematic fluctuations in $NaFe_{1-x}Ni_xAs$
We-86	Xiaoyan Ma	The Study of Quantum Critical Point in $BaFe_{2-x-y}Ni_xCr_yAs$ Based Superconductors
We-87	Alex Frano	Stabilization of three-dimensional charge order in $YBa_2Cu_3O_{6+x}$ via epitaxial growth
We-88	Wan Kyu Park	Studies of the Superconducting Order Parameter in the Heavy-Fermion Superconductor $CeCoIn_5$ via Planner Tunneling Spectroscopy at High Magnetic Field

Thursday Aug. 23rd 12:05-14:00
Poster Session 4: Theories
Chair: Tao Xiang, Inst. of Physics, CAS, China

Th-1	Kaoru Domon	Theory of electronic states in Ta_2NiSe_5 under pressure as a candidate material of excitonic phase
Th-2	Masaki Umeda	Superconducting Critical Temperature for a Dirty Nano-structured Superconductor
Th-3	Peiran Zhang	Topological transition in a family of non-centrosymmetric superconductors
Th-4	Karin Matsumoto	Possible High-T_c Superconductivity Originating from Wide- and Narrow-Bands; Study on 1D and 2D Lattices
Th-5	Daisuke Ogura	Possibility of High-Tc Superconductivity in Ruddlesden-Popper Type Materials: Incipient Narrow Bands Originating from “Hidden Ladder” Electronic Structure
Th-6	Sharareh Sayyad	Non-equilibrium electron dynamics after a quench of the interaction in the doped 2D Hubbard model
Th-7	Muhammad Redo Ramadhan	Muon's Perturbation on the Local Spatial Distribution of Cu-Spin La_2CuO_4 Simulated by Density Functional Theory Calculation
Th-8	Smritijit Sen	First Principles Investigations on a New 1111-type Fe-based Superconductor: ThFeAsN
Th-9	Jie Hou	Emergence of d_{xy}-Wave Superconductivity in a Doped Spin-1 Chain
Th-10	Rameshbabu Kunchala	Electron-Phonon Coupling and Superconductivity in NbN Polytypes
Th-11	Wei Zhu	Competing orders and fluctuations in the nematic phase of iron-based Superconductors
Th-12	Liangjian Zou	Orbital-driven two-dome superconducting phases in iron-based superconductors
Th-13	Narayan Mohanta	Supercurrent as a Probe for Topological Superconductivity in Magnetic Adatom Chains
Th-14	Xiaowei Liang	Prediction of High-Pressure Phase Stability and Superconductivity of $GaScH_6$

Th-15	Zhe Liu	Possible s-wave superconducting state in twisted bilayer graphene
Th-16	Daichi Kato	Variational Monte-Carlo Study of the Bilayer Hubbard Model
Th-17	Tae-Ho Park	Dynamical effects of BCS-BEC crossover in Holstein model
Th-18	Guoxiang Zhi	Electronic structure of Co-doped $BaZn_2As_2$
Th-19	Wenjian Lu	Manipulating charge-density-wave in monolayer 1T-$TiSe_2$ by strain and charge doping
Th-20	Artur Durajski	Phonon-mediated high-temperature superconductivity: in search of RTSC
Th-21	Ulugbek Kurbanov	Nanoscale Phase Separation and Coexistence of Insulating, Metallic and Superconducting Phases in Underdoped Cuprates
Th-22	Safarali Djumanov	The Behaviors of the Electronic Specific Heat of High-T_c Cuprates Near the Superconducting and Pseudogap Transition Temperatures.
Th-23	An He	Rectification effect in a nanostructured superconducting film with a square array of antidot triplets
Th-24	Yury Panov	Phase Separation in 2D Spin-Pseudospin Model
Th-25	Yang Liu	A Factor Governing the Ceiling of Optimal Tc of diverse high T_c superconductors
Th-26	Motoharu Kitatani	Why T_c is So Low in High-Tc Cuprates: the Importance of the Dynamical Vertex Structure
Th-27	Mi Jiang	Relevance of atomic multiplet structure to models of cuprate layers
Th-28	Mi Jiang	d-wave superconductivity in the presence of nearest neighbor Coulomb repulsion
Th-29	Yury Panov	Vortices and Skyrmion-Like States in 2D System of Charged Hard-Core Bosons
Th-30	Zhi Li	Second harmonic generation in the Weyl semimetal TaAs from a quantum kinetic equation
Th-31	Shuiquan Deng	“Flat/Steep” Band Model for Superconductivity
Th-32	Chunfang Zhang	Theoretical Insights into Potassium Hydride Formation in Potassium Aromatic Systems

Th-33	Sylwia Golab	Superconductivity of ABi_2 Compounds (A=Rb, Cs, Ca): the Role of Bi and the Influence of the Spin-Orbit Coupling.
Th-34	Jose Antonio Verges	Prediction of a Metallic Phase for Tricesium Pentacene Compound
Th-35	Yuekun Niu	A Dynamical Mean-Field Study of Orbital-Selective Mott Phase Enhanced by Next-Nearest Neighbor Hopping
Th-36	Sanjeev K. Verma	Angular Superconducting Gap in $YBa_2Cu_3O_{7-\delta}$
Th-37	Irwan Ramli	Density Functional Theory Simulation of Spin Distribution Perturbed by Muon in $YBa_2Cu_3O_6$
Th-38	Han-Ting Wang	Quasi-particle Density of States in $Bi_2Sr_2CaCu_2O_{8+\delta}$ Extracted with the Maximum Entropy Method
Th-39	Xi Chen	Simulation of the NMR Response of Cuprates Above and Below the Superconducting Temperature
Th-40	Vasily Shaginyan	Physics of high-T_c overdoped copper oxides
Th-41	Taiki Matsushita	Strain-induced spin/charge supercurrent flow in Dirac/Weyl superconductor
Th-42	Rina Tazai	Mechanism of Fully Gapped Superconductivity Mediated by MultiPole Fluctuations: Important Roles of Strong Spin-Orbit Interaction
Th-43	Wei-Liang Qian	A holographic superconductor in higher derivative gravity theory
Th-44	Priyo Adhikary	Superconductivity from valence fluctuations
Th-45	Safarali Djumanov	Bosonization of Cooper Pairs and Novel Bose-liquid Superconductivity in High-T_c Cuprates
Th-46	Shota Kanasugi	Ferroelectric-like Order in Spin-Orbit-Coupled Superconductors
Th-47	Roman Mints	Quantization of Electronic Excitations in Vortex Core: Semi-Classical Approach
Th-48	Jiangfan Wang	Covariant gaussian approximation in Ginzburg–Landau model
Th-49	Shuntaro Sumita	Unconventional superconducting gap structure protected by space group symmetry

Th-50	Hong-Ji Wang	A New Theory of Superconducting Materials and Superconducting Mechanisms
Th-51	Wen Huang	Two recent results on the theories of the superconducting Sr_2RuO_4
Th-52	Evgeny Mazur	The superconducting transition temperature in two-band electron-phonon system with interband pairing
Th-53	Keisuke Mitsumoto	Simultaneous Phase Transitions of Superconductivity and Electric Hexadecapole in Iron Pnictide $Ba(Fe_{1-x}Co_x)_2As_2$
Th-54	Oleg Dolgov	The Electron-Phonon Interaction with Forward Scattering Peak in FeSe on $SrTiO_3$
Th-55	Rong Li	Local Quantum Order Induced Hole Transport in High-temperature Cuprate Superconductors
Th-56	Yuki Nagai	Time-reversal and/or translational symmetry breaking in d-wave nano-superconductors
Th-57	Wenxin Ding	A Strange Metal from Gutzwiller correlations: Transverse Transport, Optical Response and Rise of Two Relaxation Rates
Th-58	Huaisong Zhao	Pseudogap-generated a coexistence of Fermi arcs and Fermi pockets in cuprate superconductors
Th-59	Lin Li	Rashba-induced Kondo screening of a magnetic impurity in two-dimensional superconductor
Th-60	Jia-Cheng He	Theoretical Formalism of Andreev Reflection Spectroscopy for Three-dimensional Triplet Pairing Superconductors
Th-61	Jinhuan Jiang	Magnetic-interaction-induced superconductivity in metals
Th-62	Jinhuan Jiang	High-TC superconductivity induced by magnetic interactions
Th-63	Jamie Booth	Towards a Standard Model for Condensed Matter Physics: From Peierls and Mott to High T_c Superconductivity
Th-64	Aabhaas Vineet Mallik	Surprises in the t-J model: Implications for cuprates
Th-65	Henri Menke	Spin-orbit coupling and time-reversal symmetry breaking in a multiband superconductor
Th-66	Henri Menke	Non-hermitian topological quantum wires with balanced gain and loss

Th-67	Yiqun Liu	Electronic Structure of Bilayer Cuprate Superconductors
Th-68	Xingchuan Zhu	Pairing Symmetry of Interacting Fermions on Twisted Bilayer Graphene Superlattice
Th-69	Shuning Tan	Autocorrelation of Quasiparticle Excitation Spectral Intensities and Its Connection with Joint Density of States in Cuprate Superconductors
Th-70	Alejandro Mezio	Effect of the Hund's rule and orbital anisotropy in the two-band Hubbard model: a finite-temperature slave-spin treatment
Th-71	Bin Liu	Pairing symmetry determined by local density of states around impurities in heavy-fermion superconductors
Th-72	Lukas Schwarz	Theory of Higgs Spectroscopy for Superconductors in Nonequilibrium
Th-73	Yiming Wang	Theoretical study on the phonon softening in iron-based superconductors
Th-74	Weiqiang Chen	Nodeless gap induced by proximity effect in monolayer CuO_2 on BSCCO substrate
Th-75	Yingping Mou	Doping and Momentum Dependence of Pairing Interactions in Cuprate Superconductors
Th-76	Jin Mo Bok	Exciton condensation temperature and odd frequency pairing in a transition metal dichalcogenide 1T-$TeSe_2$
Th-77	Jiangdi Fan	Introspection of Mechanism Theories of Superconductivity
Th-78	Dawei Yao	The driving mechanism and the form of the orbital order in the iron-based superconductors
Th-79	Ling Qin	absence of the asymmetry in phace diagram
Th-80	Masahiko Hayashi	Fluctuation Effects on the Phase Diagram of Cuprate High-T_c Superconductors Based on the t-J Model
Th-81	Zhihao Geng	Magnetic Field dependent Raman Response in Over-electron-doped Cuprates
Th-82	Shun Tamura	Theory of proximity effect in dxy-wave superconductor with Rashba spin-orbit interaction
Th-83	Shengtao Jiang	Non-Fermi Liquid Scattering Against Emergent Bose Liquid: Manifestations in the Kink and Other Exotic Quasiparticle Behaviors in the Normal-State Cuprate

Th-84	Chandan Setty	Inequivalence of the zero-momentum Limits of Transverse and Longitudinal Dielectric Response in the Cuprates
Th-85	Xianxin Wu	Substrate-supported triplet superconductivity in Dirac semimetals

Poster size: 90 cm [35 in] (width) x 120 cm [47 in] (length)		
Poster Presentation Date	Set up after	Take down before
Monday, August 20	07:30 on Monday	18:00 on Monday
Tuesday, August 21	07:30 on Tuesday	18:00 on Tuesday
Wednesday, August 22	07:30 on Wednesday	18:00 on Wednesday
Thursday, August 23	07:30 on Thursday	18:00 on Thursday
If you did not take down your poster after 18:00 at the presentation day, your posters will be disposed by conference organizers.		

9. General Information

9.1 About Beijing

Beijing, the capital of People's Republic of China (PRC), the center of politics, culture, transport, tourism and international communication, is a fast-growing, dynamic metropolis that, while courting foreign businesses and visitors, maintains a firm grip on its rich cultural heritage. It is a monolithic showcase that can give a brief view of China to foreign visitors.

- Area: 16,800 sq km (6552 sq mi)
- Population: 21.7 million
- Country: People's Republic of China
- People: 95% Han Chinese
- Main language: Mandarin (putonghua)
- Time zone: GMT/UTC plus 8 hours
- Telephone area code: 010

As an ancient city, Beijing's history can be tracked back to 3,000 years ago. In the Spring-Autumn and warring Periods (770 BC – 221 BC), Yan Nation established capital in Beijing, called "Ji". In Qin, Han and Three Kingdoms time Beijing area is the center of northern China. Wang Mang established in Beijing in the Yan Nation in end of the Western Han Dynasty, so that Beijing is also called "Yanjing". During the South Song Dynasty Liao Nation established the Capital in Beijing called Pei, Jin Dynasty officially eatablished Capital in Beijing. Ever since, the Yuan Dynasty, Ming Dynasty and Qing Dynasty were established Capital in Beijing, a total of 34 emperors reigned over the whole country in Beijing.

The long history of Beijing left a large number of cultural relics and a rich and varied human landscape, which provided very rich tourism resources for Beijing. The magnificent Great Wall and the Forbidden City are the world-famous tourist attractions. The beauty of the Summer Palace, Beihai, Xiangshan, the Temple of Heaven, the Royal Garden are magnets for visitors.

After the founding of New China, Beijing, as the country's political and cultural center, the social business and urban infrastructure facilities have been making considerable progress. Especially more than 20 years after 1978 with the implementation of "reform and opening up", Beijing has developed and changed rapidly. Now, it is a modern city with high-rise buildings, shopping malls and vast international hotels connected by an intricate freeway system crisscrossing the city. In the rush hour, traffic jams can match those of any major city around the world and the ringing of mobile phones is incessant. However, the modern buildings conceal traditional hutongs, parks, numerous architectural treasure and exquisite yellow-tiled temples whose prayer flags and wind chimes move in the breeze created by the passing traffic.

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9.2 Travel Tips

Weather

The climate in Beijing is “continental”, with cold and dry winters, due to the Siberian air masses that move southward across the Mongolian Plateau. Summers are generally hot owing to warm and humid monsoon winds from the southeast bringing Beijing most of its annual precipitation. January is the coldest month and July is the hottest. Winters usually begin since the end of October. The summer months, June to August, are wet and hot with about 40% of the annual precipitation.

Average Data	Average High °F	Average High °C	Average Low °F	Average Low °C	Max (°F)	Max (°C)	Min (°F)	Min (°C)	Rain (in)	Rain (mm)
Aug	84/88	29/31	67/71	20/22	107	41.7	54	12.2	7.1/7.2	180/185

Electricity

The electric current used in China is 220V 50Hz. Hotels provide 220V and 110V (shavers only) power outlets. Please note that plug adapters and converters might be required.

Currency and Exchange

The currency used in China is the Renminbi Yuan (RMB or ￥) and the value is pegged to the US dollar with a current exchange rate of US$ 1: RMB 6.76 (July 2018). The Yuan is divided into 10 Jiao or 100 Fen. Notes come in denominations of ￥100, 50, 20, 10, 5 and 1. Exchange your leftover Yuan before returning home as it can only be exchanged within China's borders.

Euros and US Dollars can be exchanged at your hotel or at any bank. Traveller’s cheques can only be exchanged at the Bank of China. Banks usually open from 9 a.m. to 5 p.m. From Monday to Friday and 9 a.m. to 4 p.m. on Saturday and Sunday. Currency exchange services are available for the following foreign currencies: US Dollar, British Pound Sterling, Euro, Japanese Yen, Australian Dollar, Canadian Dollar, Hong Kong Dollar, Swiss Franc, Danish Krone, Norwegian Krone, Swedish Krone, Singapore Dollar, Malaysian Ringgit, and Macao Pataca.

Major credit cards are accepted at many establishments, such as American Express, Diners Club, JCB, Master Card and Visa.

ATM Machine

Beijing is a very ATM-friendly city. There are many banks with ATMs, but only about 50% of these accept foreign cards. The main foreign friendly ATMs are controlled by the Bank of China. Bank of China ATMs work in both Chinese and English (depending on your card), use the latest equipment, and are reasonably easy to find.

Safety and Security

In general China is a very safe country. However, be aware of pickpockets and be careful when crossing the road. Passports should be kept in the hotel for safety until the departure day. Also note the serial numbers of your traveller's checks if you carry those. We also recommend having copies of your passport and credit cards with you in case of loss or theft.

Tipping

Gratuities are not customary in China. However, in hotels and during group travels, tipping is practiced for porters, tour guides and drivers.

Smoking

Smoking in indoor public places has been banned in Beijing from June 1, 2015 following the rolling out of the toughest ever anti-smoking regulation in China. The regulation extends smoking bans to include all indoor public areas and workplaces, plus a number of outdoor areas including schools, seating areas in sports stadiums and hospitals where women or children are treated.

Time

China covers four time zones. Beijing time is the only official time throughout the country; punctuality is highly appreciated.

Transportation

Public Buses

Buses are the main means of transport in Beijing. Please prepare small bills as not all buses will carry change. Buses can be very crowded during peak times, which are generally from 7-9 a.m. and 4-6 p.m.

The Subway

The subway system in Beijing has 15 lines. The fare is 3 - 9 yuan. Trains run from 5:30 in the morning until 11:00 in the evening. A ticket can be bought at the ticket office at each station or at an automatic ticketing machine. Subway stops are announced over the train's speaker system in Chinese and English.

Taxis

Taxis in Beijing have several colours. All of them show a taximeter inside. You can easily find them in every part of Beijing. All Taxis will charge 2.3 yuan per kilometer with a base rate or minimum charge of 13 yuan.

9.3 Tours at Beijing

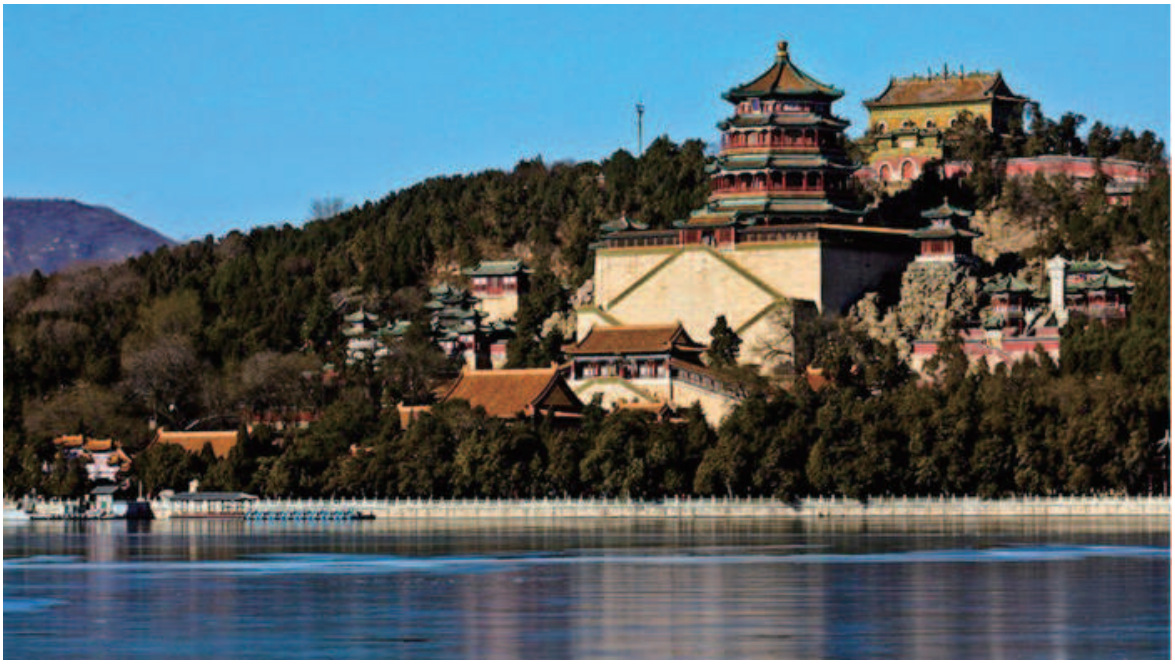
1: The Forbidden City (故宫)

As the seat of Imperial power for 500 years, the Forbidden City (also known as the Palace Museum) is now the largest museum and one of the top tourism attractions in China. The palace has been burnt down, rebuilt, sacked and renovated countless times, so most of the architecture you can see today dates from the 1700's and onwards. Altogether there are 9,999.5 rooms in the Museum, not all of which can be visited. The Forbidden City was listed as a UNESCO World Heritage site in 1987.

Tips: In order to preserve the World Heritage Site and guarantee a better visiting experience, the Forbidden City is limiting the daily number of visitors to 80,000. If you choose this route, please **provide your valid IDs and passport numbers** so that we can register and book tickets online in advance. On the day of visit, please bring your valid ID cards or passports in case of random admission checks.

2: The Summer Palace (颐和园)

The Summer Palace is the largest and most well-preserved royal garden in China. The park greatly influences Chinese horticulture and landscape with its famous natural views and cultural interests, which also has long since been recognized as The Museum of Royal Gardens. Construction started in 1750 as a luxurious royal garden for royal families to rest and entertain. It later became the main residence of royal members towards the end of the Qing Dynasty. It ranked amongst the World Heritage Sites by UNESCO in 1998.



3: The Great Wall at Badaling(八达岭长城风景名胜区)

The Great Wall at Badaling was built along the ridges of mountains, looking precipitous from the external wall but gently sloped from the internal wall. It is a section of the Great Wall opened earliest to tourists and receives the largest number of tourists. In the six decades since it opened, the Great Wall at Badaling scenic spot, on behalf of the Great Wall of China, was conferred with the World Cultural Heritage license by UNESCO. In 2007, in the appraisal of the world's new seven wonders, Great Wall maintained its top position because of its extensive and profound history and culture, and unprecedented prestige in the world.

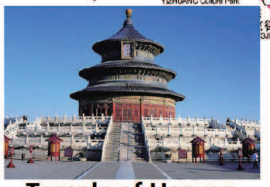
Badaling Great Wall

Yuanmingyuan Imperial Garden

Summer Palace

Qianmen Street (Front door of Beijing)

The Imperial Palace
(Forbidden City)



Temple of Heaven

BICC

National Stadium (Bird's Nest)

National Aquatics Center (Water Cube)

Beijing CBD center

Wangfujing Shopping Mall

Beijing Capital International Airport

北
NORTH

交通服务监督电话
Transportation Service Supervision Hotline 12328

地铁服务热线
Beijing Service Hotline 96165

北京地铁官方网站 http://www.bjsubway.com

National Lab for Superconductivity

The establishment of the National Laboratory for Superconductivity (NLSC) at IOP was approved in 1987. After passing the inspection in April 1991, NLSC was formally accepted and listed as a state key laboratory and officially opened to both domestic and foreign researchers. In December 2004, the Ministry of Science and Technology of the People's Republic of China (MOST) awarded NLSC with the title of Advanced Group in the Program of State Key Laboratory. Research at NLSC primarily covers frontier fundamental research and basic applied technology. Current research projects include searching for new superconductors, investigating the mechanism of superconductivity and related physics problems, synthesizing thin films as well as developing thin film superconductor devices and their applications.

During the new upsurge of research in superconductivity triggered by the discovery of iron-based superconductors in 2008, scientists in NLSC have again drawn worldwide attention by their remarkable contributions on exploring new iron based materials with higher T_c and studying the related physical properties of iron based superconductors. NLSC is now further devoted to refining research projects, optimizing personnel structure, recruiting new talents, developing unique state of art experimental facilities as well as initiating innovative research. NLSC is dedicated to being a world class lab and preparing for more momentous scientific breakthroughs henceforth.

Website: http://nlsc.iphy.ac.cn/Ephy-41.aspx

2016 National Highest Science and Technology Award (Prof. Zhongxian Zhao)

Prime Minister Li Keqiang visited the Lab

TWAS 2015 Prize in Physics (Prof. Xingjiang Zhou)

Founding director
Prof. Zhongxian ZHAO
(Term: 1988-2000.9)

2nd director
Prof. Hai-Hu WEN
(Term: 2000.9-2009.6)

Director
Prof. Xingjiang ZHOU
(Term: 2009.6 -)

Deputy director
Prof. Kui JIN
(Term: 2017.9 -)

Chair of the Academic Committee
Prof. Tao XIANG
(Term: 2018.1 -)

Family photo of the National Lab for Superconductivity and academic committee (2018)

超导国家重点实验室研究组和研究方向

Research Groups and Directions of National Lab for Superconductivity, IOP, CAS

SC2

基于高通量组合薄膜技术的新超导体探索和物理研究

Exploration of New Superconductors and Novel Superconductivity on High-throughput Combinatorial Thin Films

组长：金魁

Group Leader : JIN Kui


金魁 (JIN Kui)


袁洁 (YUAN Jie)


朱北沂 (ZHU Beiyi)


许波 (XU Bo)


何格 (HE Ge)


贾绍丽 (JIA Yaoli)


魏鑫健 (WEI Xinjian)


胡卫（HU Wei）


冯中坤（FENG Zhongpei）


张旭（ZHANG Xu）


杨烨 (YANG How)


秦明辉（QIN Mingyang）


魏忠旭（WEI Zhongxu）

SC3

介观尺度超导体中量子现象的研究

Research on the Quantum Phenomena in Mesoscopic Superconductors

组长：邱祥冈

Group Leader : QIU Xianggang


邱祥冈 (QIU Xianggang)


董成 (DONG Cheng)


赵柏儒 (ZHAO Bairu)


李春红 (LI Chunhong)


谢华 (XIE Hua)


周孟虎 (ZHOU Menghu)


李晓川 (LI Xiaochuan)


杨润 (YANG Run)


邱子阳（Qiu Ziyang）


隋强涛（SUI Qiangtao）


裴子玺（PEI Zixi）


刘玙（LIU Yu）


郭伟贵（GUO Weigui）

SC4

探索高温超导体及相关的机理研究

Exploring new unconventional superconductor and its mechanism

组长：董晓莉

Group Leader : DONG Xiaoli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孙力玲（SUN Liling）


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郭静 (GUO Jing)


马明伟（MA Mingwei）


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毛义元 (MAO Yiyuan)


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蔡树（CAI Shu）


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林泽华（LIN Zehua）

田金朋（TIAN Jinpeng）

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林贡长（LIN Gongchang）

SC5

超导薄膜材料和器件的物理及应用

Superconducting Thin Films and Devices

组长：郑东宁

Group Leader : ZHENG Dongning

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储谦谨 (CHU Qianjin)

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吴云（WU Yun）

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李贺康 (LI Hekang)

黄海波（HUANG Haibo）

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苏鹭红（SU Luhong）

王战（WANG Zhan）

SC7

超导材料和其它量子材料的光电子能谱研究

Photoemission Spectroscopy Study on Superconductors and Other Quantum Materials

组长：周兴江

Group Leader : ZHOU Xingjiang

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宋春华(SONG Chunhua)

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吴东雷(WU Dinglei)

杨羽(YANG Yue)

李杨（LI Yang）

牟刚(MOU Chao)

SC8

通过中子散射研究包括铁基和铜氧化合物高温超导体在内的强关联材料

Neutron Scattering on the Strong Correlated Materials Including the Iron-based and Copper Oxide High-temperature Superconductors

组长：李世亮

Group Leader : LI Shiliang

李世亮 (LI Shiliang)

罗会仟 (LUO Huiqian)

马肖燕 (MA Xiaoyan)

吴秀钦 (WU Xiuqin)

刘盼玉 (LIU Zhaoyu)

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洪文会 (HONG Wenhui)

SC9

新奇超导体功能与机制的核磁共振研究

Nuclear Magnetic Resonance Study on Novel Superconductivity

组长：郑国庆

Group Leader : ZHENG Guoqing g

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李政 (LI Zheng)

杨杰 (YANG Jie)

周睿（ZHOU Rui）

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王春光（WANG Chunguang）

SC10

新型量子功能材料的探索研究

Novel Superconductors and Related Functional Materials

组长：陈根富

Group Leader : CHEN Genfu

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任治安 (REN Zhian)

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薛面起 (XUE Mianqi)

张帅（ZHANG Shuai）

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中船重工鹏力（南京）超低温技术有限公司
CSIC PRIDe (NANJING) CRYOGENIC TECHNOLOGY CO.,LTD.

Company Profile

CSIC Pride (Nanjing) Cryogenic Technology Co., Ltd (PRIDE Cryogenics) is a high-tech company founded by China Shipbuilding Industry Corporation, 724 Institute and Nanjing Pride Technology Group. PRIDE Cryogenics is only cryogenic equipment manufacturer who masters 4K crycooler technology in China and also the only one of the cryogenic equipment manufacturers who can supply with 4K cryocoolers, standard and customized cryostats, and large scale cryogenic systems for liquefaction of Natural Gas, Helium and Hydrogen around the world.

• Series Of GM Cryocoolers

Gifford-Mcmahon (GM) cryocooler is invented by Gifford and Mcmahon, whose refrigeration principle is gas adiabatic expansion. Due to the high reliability, long service life, easy to control, high reliability property of GM Cryocooler, it becomes the only one of cryocoolers who has been industrialized.

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• Series Of Cryostats

CSIC Pride (Nanjing) Cryogenic Technology Co., Ltd will spare no efforts to provide our customers with various customized cryogenic solutions, such as cryogenic systems which take cryocoolers, liquid nitrogen or liquid helium as cold source. We can meet our customers' kinds of requirements, including 300K to 1.2K temperature demand, vibration requirements less than 10nm, temperature fluctuation less than ±1mk, etc. We also can provide solutions to meet the demand of special shape structure, bigger work space, observation window and-filter.

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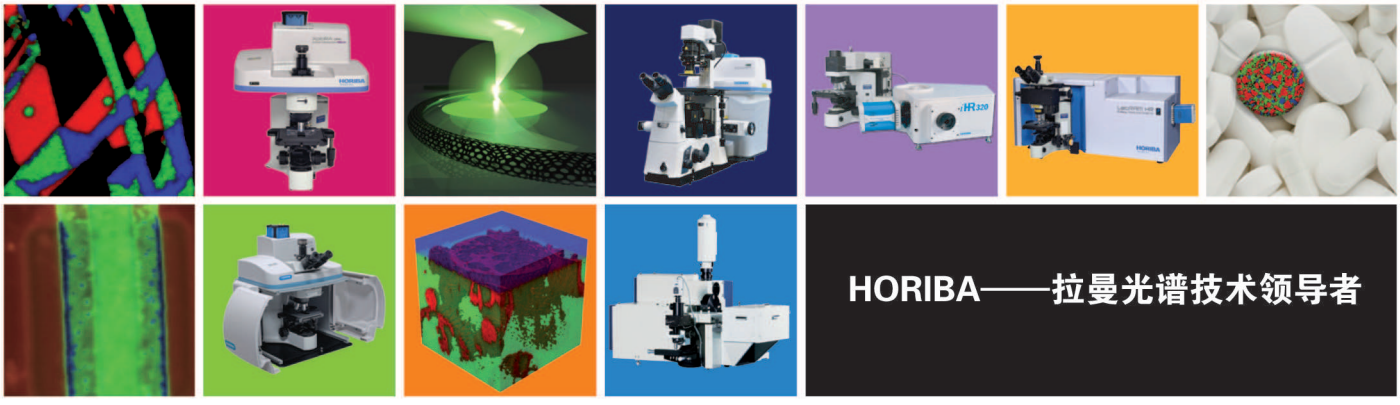

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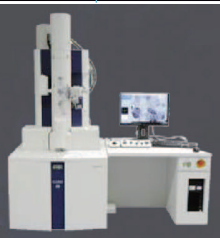
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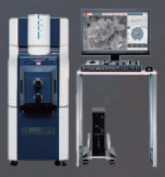
SU3500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TM4000

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AFM 5100N

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Arblade5000


IM4000 Plus

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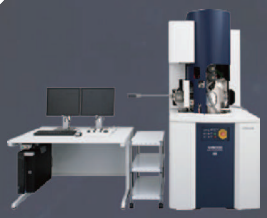
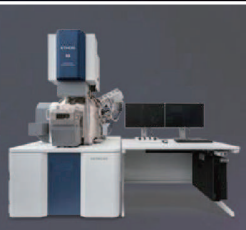

NX9000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上海上创超导科技有限公司

Shanghai Creative Superconductor Technologies Co., Ltd

上海上创超导科技有限公司是在上海市政府直接指导下由上海大学、上海科技创业投资(集团)有限公司、上海聚惠生物医药产业开发有限公司及管理团队、技术团队等自然人股东于 2011 年 8 月共同投资组建的混合所有制企业。上创公司是集产学研用一体的致力于第二代高温超导材料及下游应用装备研发与生产的战略型新兴产业高科技公司。

上创公司作为上海市产业化重大项目的牵头单位，于 2013 年在国内率先实现了千米级低成本第二代高温超导带材产业化及其装备、工艺与组分的国产化，可生产国内最宽、走带速度最快、成本最低的第二代高温超导带材，性价比达到国际领先水平，成为国内首家千米级第二代高温超导带材生产商。其低成本 MOD 工艺技术路线填补了国内空白，产品相继获得了工信部国内首家高温超导材料金奖、《SCIENTIFCAMERICAN》与美国麦肯锡公司联合评选的“5UNDER5”创新奖、2017 年度上海市科技奖（技术发明二等奖）、并通过了工信部科技成果鉴定，承担了 2017 年工业强基工程项目。公司集聚了杰出的超导及其材料领域专家数十人，在 7 年时间里形成了数十项专利，正在多个领域与众多单位携手推动下游强电装备开发。同时，上创公司与上海大学合作成立了上创上大超导工程联合研发中心，并于 2014 年通过上海市唯一的高温超导重点实验室认定，为上创公司的技术持续进步获得了强有力的支持。

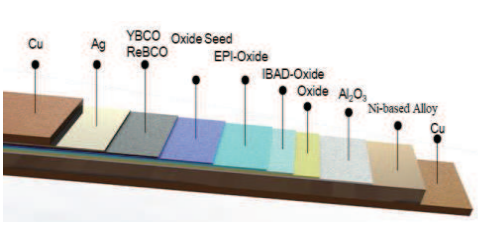
上创公司以其领先的符合产业化标准的自主工艺、装备技术路线，开创了低成本第二代高温超导材料产业化的中国道路，将在电力、交通、磁医疗康复器械、国家大科学工程等众多领域，助推下游应用企业转型升级与技术进步。

Shanghai Creative Superconductor Technologies Co., Ltd (SCSC) was established in August 2011 with the direct guidance of the Shanghai Municipal Government. SCSC is actually a mixed ownership enterprise, consisting of Shanghai University, Shanghai S & Venture Capital Group, Shanghai Poly Biomedical Industry Development Co., Ltd, as well as the management team, the technical team and personal shareholders. As a high-tech company, SCSC integrates the production, research and application of secondary-generation high-temperature superconductor (2G-HTS) tapes, and the downstream application products

As the leading company of HTS industrialization in Shanghai, SCSC routinely manufactures long lengths 2G-HTS from hundreds to kilometer class with variations in width, substrate thickness, and copper stabilizer thickness etc., also being the first manufacturer for kilometer-class 2G-HTS tapes in 2013. Now, SCSC' HTS tapes is fabricated by a series of automated, continuous processing tools for cost-effective deposition technique, i. e., metal organic deposition, being filling the domestic gap in this field. SCSC hold dozens of experts in the fields of superconductor and other related materials. During the past seven years, we achieved dozens of patents. To promote the downstream power applications, we are now cooperating with various related electric companies, and enhancing the roles of the joint R & D center between SCSC and Shanghai University, as well as the evolved Shanghai Key Laboratory of High-temperature Superconductors.

With the leading industrial standards production line, own technology and equipment, SCSC is creating a low-cost 2G HTS industrialization road in China . The application of HTS in the field of power, transportation, magnetic medical rehabilitation equipment and large scientific projects will promote the tra nsformation and upgrading of downstream equipment business and technological progress.

第二代高温超导带材典型结构
Typical 2G-HTS tape architecture



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Company Honors

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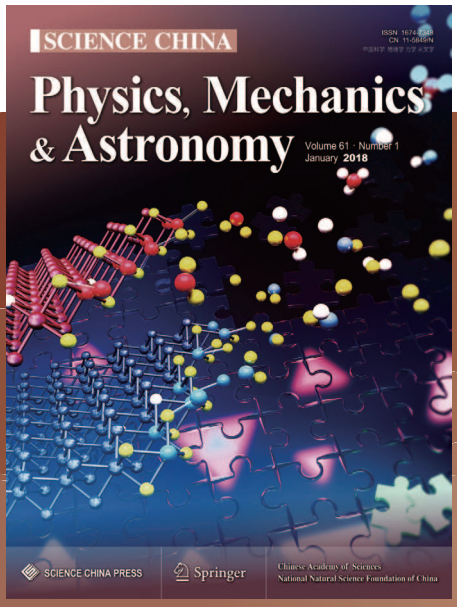
- Website:http://www.china-superconductor.com/
- Address:No.4,Lane2066,WangyuanRoad,FengxianDistrictt,Shanghai,China.
- Phone:+86-021-37515861Fx：+86-021-37515791



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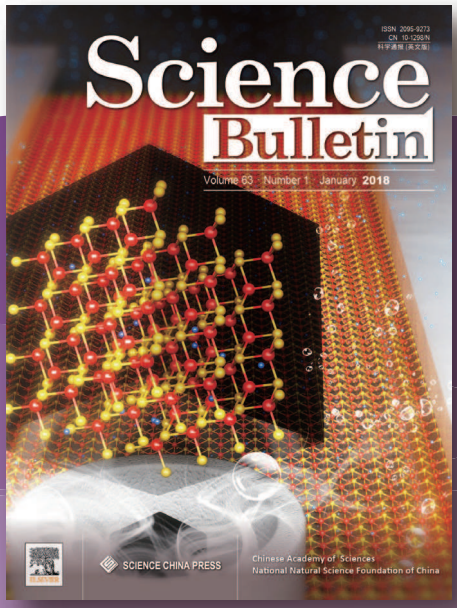

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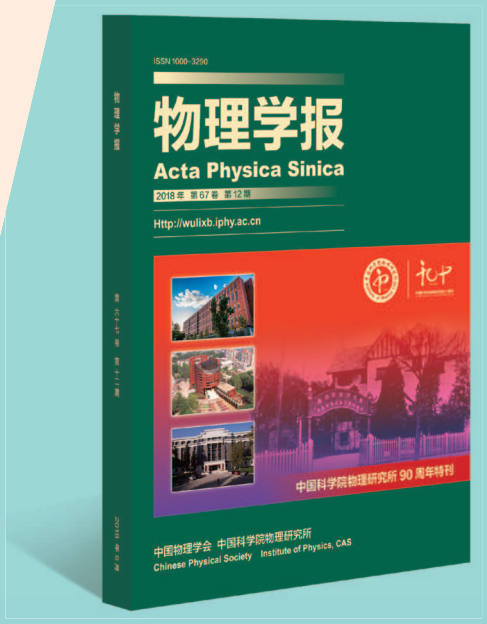

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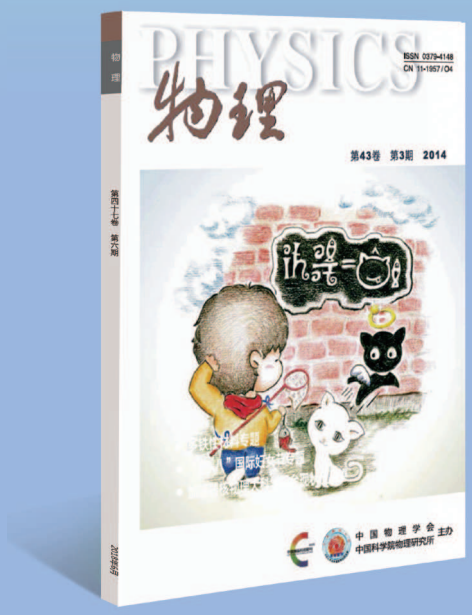

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