



22nd International Conference on the Physics of Highly Charged ions (HCI2026), 7-11 Sept. 2026, Institute of Modern Physics, Chinese Academy of Sciences, Huizhou, China

Third Announcement

The 22nd International Conference on the Physics of Highly Charged ions will be hosted from 7 to 11 September 2026 by Institute of Modern Physics, Chinese Academy of Sciences at the Shuangyue bay resort in Huizhou, China. We cordially invite you to HCI2026. As a prominent event in the international HCI conference series, HCI2026 will offer a global forum for researchers to share and discuss the latest breakthroughs in the field of highly charged ions (HCIs). Since its inception in 1982, the biennial HCI conference series has continuously evolved, attracting scientists from diverse disciplines around the world.

HCI2026 aims to bring together experimentalists and theorists to explore a broad spectrum of topics, including:

- Fundamental Aspects, Structure, and Spectroscopy
- Collisions with Electrons, Ions, Atoms, and Molecules
- Interaction with Clusters, Surfaces, and Solids
- Interactions with Photons and Plasmas
- Strong Field and Ultrafast Processes
- Production, Experimental Developments, and Applications

The scientific program will consist of 5 Review Lectures, 13 Progress Reports, 24 Selected Talks, 1 Local Report, 1 Public Lecture, and 2 Poster sessions.

Important Dates

Final announcement: 17 August 2026

Registration open: 20 April 2026

Abstract submission: Closed on 15 August, 2026

Proceeding submission open date: 1 September, 2026

Confirmed Invited Speakers

Invited Speakers for Review Reports (45 min):

José R. Crespo López-Urrutia, Max-Planck Institute for Nuclear Physics, Germany

“Sensing old and, possibly, new physics with highly charged ions”

Toshiyuki Azuma, AMO Physics Lab RIKEN, WPI-QUP, KEK, Japan

“QED Tests via Resonant Coherent Excitation in Thin Crystals and Muonic Atoms”

Ronnie Hoekstra, University of Groningen, The Netherlands

“Surprises in Electron Capture by low-energy Sn ions: Hop-skip-and-jump versus long-jump double electron capture from H₂”

Yuri Ralchenko, University of Maryland, Goddard Space Flight Center, USA

“From clusters of galaxies to tiny nuclei: the robust utility of EBIT spectroscopy”

Alain Dubois, Sorbonne University, Paris, France

“Electron correlation in highly charged ion-atom collisions”

Invited Speaker for Local Report (30 min):

Meng Wang, Institute of Modern Physics, Chinese Academy of Sciences, Lanzhou, China

“An Overview of Research Activities at IMP and Opportunities at HIAF”

Invited Speakers for Progress Reports (30 min):

Atsushi Yamaguchi, RIKEN, Japan

“Progress towards a trapped-ion nuclear clock”

Tom Kirchner, York University, Canada

“Generalized independent-atom-model approach for net ionization of molecules by multiply-charged-heavy-ion impact”

Shenyue Xu, Institute of Modern Physics, Chinese Academy of Sciences, China

“Damaging intermolecular relaxation processes of hydrated biomolecules after heavy-ion irradiation”

Günter Weber, Helmholtz Institute Jena, Germany

“Quantum Electrodynamics in Strong Electromagnetic Fields: Substate Resolved $K\alpha\alpha$ Transition Energies in Heliumlike Uranium”

Daniel Fischer, Missouri University of Science and Technology, Rolla, USA

“Fully differential ion–atom collision experiments in storage rings: past, present and future”

Shaolong Chen, Innovation Academy for Precision Measurement Science and Technology, Chinese Academy of Sciences, China

“Recent Progress on Sympathetic Cooling of Ni Highly Charged Ions for Optical Clock Development”

Moto Togawa, EuXFEL/JAXA/MPIK, Germany

“Ultrafast highly charged ion dynamics”

Ling Zhang, Institute of Plasma Physics, Chinese Academy of Sciences, China

“Highly charged tungsten ion observation: Enabling insights into tungsten transport study in fusion plasma”

Victoria Vojtech, Technical University of Vienna, Austria

“Looking behind the surface to disentangle electron emission mechanisms in HCI-solid interactions”

Yuri Litvinov, GSI Helmholtzzentrum für Schwerionenforschung, University of Cologne, Germany

“Precision experiments at the intersection of Atomic, Nuclear and Astrophysics”

Stefanos Nanos, 1 Institut des Nanosciences de Paris, France, 2 University of Crete, Greece

“Spin-statistics breaking in swift collisions of He-like metastable ions with atoms”

Shiqian Ding, 1 Department of Physics, Tsinghua University, Beijing, China, 2 Beijing Academy of Quantum Information Sciences, Beijing, China

“A nuclear clock based on Th-229”

Endre Takacs, Department of Physics and Astronomy, Clemson University, South Carolina, USA

“Highly Charged Ions as Emerging Probes of Nuclear Structure”

Public Lecture (45 min), Wednesday Evening, 9 September:

Speaker: Di Li, Professor, Dr.

Affiliation: Tsinghua University, and National Astronomical Observatories, Chinese Academy of Sciences, Beijing, China

Title: *“Time Frontier: Extending Human Cognizance of the Dynamic Universe”*

Conference Program

Program for HCI2026 Conference in Huizhou, China

Date Time	6 Sept Sun.	7 Sept Mon	8 Sept Tue	9 Sept Wed	10 Sept Thu	11 Sept Fri	
9:00-9:45		Opening Meng Wang	Yuri Ralchenko	Ronnie Hoekstra	Toshiyuki Azuma	Tom Kirchner Tianyu Zheng Sergey Litvinov	
9:45-10:15		José R. Crespo López- Urrutia Conf. Photo	Shaolong Chen	Endre Takacs	Günter Weber		
10:15-10:35			Chunyu Zhang	Tomoko KAWATE	Chintan SHAH	Alexander Voitkov	
10:35-11:05		Coffee Break					
11:05-11:35		Atsushi Yamaguchi	Shiqian Ding	Shenyue Xu	Moto Togawa	Yury Litvinov	
11:35-11:55		Chunhai Lyu	Wu Wang	Antonin Bourgeteau	Enliang Wang	Xinliang Yan	
11:55-14:00		Lunch					Closing
14:00-14:30		Registration, 14:00-22:00	Ling Zhang	Victoria Vojtech	Daniel Fischer	HiAF Tour 13:00-17:00	Adjourn ----- Transport to IMP new campus for follow-up related meetings*.
14:30-14:50			Naoki Kimura	Martino Trassinelli	Alexandre Gumberidze		
14:50-15:10			Guiyun Liang	Grzegorz Wesolowski	Zhongwen Wu		
15:10-15:30	Jieru Ren		Luc ASSINK	Nicholas Antonio			
15:30-16:00	Coffee Break						
16:00-16:30	Stefanos Nanos		Poster Session-1	Poster Session-2			
16:30-16:50	Yijiao Wu						
16:50-17:10	Hajime Tanuma						
17:10-17:30	Guocheng Wei						
17:30-18:00	Károly Tőkési					Social activity	
18:00-19:00	Reception	Dinner					
19:00-20:00 19:00-21:00				Public Lecture Di Li	Conference Dinner		

* For those taking part in the scheduled FIPI activities and SPARC2026 meeting.

Conference Venue and Travel information

The location of HCI2026 is Dusit Thani Resort Shuangyue Bay, which is close to the HIAF site.

The Lecture Hall locates on the hotel's 2nd floor.

Hotel Address:

Near No.213 County Road (Binhai Tourist Resort, Nianping Peninsula Shuangyuewan, Huidong, Guangdong, China

地址：广东省惠州市，惠东港口镇东海地段，惠州双月湾檀悦都喜天丽度假酒店

Hotel Service Counter Telephone: +86 752 888 9999

Shuttle Bus service

Our shuttle bus services will operate between the **Airports** and the conference hotel. Multiple departure batches (e.g., 3–4 trips) will be arranged based to **registered flight arrival times (Important!)**. Updated details, including airports, departure timetables, will be posted on the conference webpage.

Travel to the Conference Hotel

By Plane:

A. Huizhou Pingtan Airport (惠州平潭机场):

Approximately 75 km from the conference hotel.

Taxi / ride-hailing: ~90 minutes, ~120 CNY.

B. Shenzhen Bao'an International Airport (深圳宝安国际机场):

Approximately 160 km from the hotel.

Taxi / ride-hailing: over 2 hours, 200–400 CNY.

C. Guangzhou Baiyun International Airport (广州白云国际机场):

Approximately 250 km from the hotel.

Taxi / car: ~3 hours, 300–500 CNY.

D. Hong Kong International Airport (香港国际机场):

Coach services to Huizhou are available at the Mainland/Macao Transport Centre, Hall A, Arrivals Level (L5), Terminal 1, counters M01–M05.

- Eternal East Bus 永東巴士: departs hourly 08:30–20:00
- Fare: ~250 CNY to Huizhou Jinlun Hotel Station 惠州金銓酒店
- Travel time: ~3 hours
- Then take a taxi from Jinlun Hotel Station to the Conference Hotel: ~100 km, ~90 minutes, ~150 CNY.

By Train:

The city is served by five mainline railway stations situated near the downtown area:

A. Huizhou North Railway Station (惠州北站)

High-speed rail. ~116 km. Taxi: ~ 250 CNY

B. Huizhou Railway Station (惠州站)

Regular rail. ~115 km. Taxi: ~ 250 CNY

C. Huizhou South Railway Station (惠州南站)

High-speed rail. ~100 km. Taxi: ~ 200 CNY

Notes:

If you travel via Hong Kong, please check visa requirements for your nationality in advance.

Tips:

You may show the following Chinese address directly to taxi drivers to avoid communication problems:

“师傅您好！请送我到惠州市惠东双月湾檀悦都喜天丽度假酒店。谢谢！”

"Hi, could you take me to Dusit Thani Shuangyue Bay Resort in Huidong, Huizhou? Thank you."

We strongly recommend using **DiDi**, **Alipay**, or **WeChat Pay** for ride-hailing and payments.

Mobile payments are now available for non-Chinese users. For detailed guidance, please view the PDF guide on our website by [clicking](#).

It is also recommended to prepare some cash (preferably with small changes).

!!! Click any underlined airport, railway station, or bus terminal above to view a map showing directions from that location to the conference hotel.

Hotel and Accommodation

Hotel:

Name: Tanyue Dusit Thani Resort

Address: Coastal Tourist Resort Area, Shuangyue Bay, Renping Peninsula, Gangkou Town, Huidong, Guangdong, China

Accommodation:

A special room rate is offered to HCI2026 participants at Tanyue Dusit Thani Resort, with a room block reserved by the local organizing committee.

Please indicate your room preference on the registration form. Rooms will be allocated accordingly, and payment should be made directly at the hotel front desk upon arrival.

Available Room Types:

King Bed Room

Twin Bed Room

Special Rate:

Tianji Building, 530 CNY per room per night

Tianyue Building, 420 CNY per room per night

Including: breakfast (2 adults), sky swimming pool on the 31st floor, water park, Boat Bar and Pool, children's castle, table tennis, billiards, and Cannes Broadcast Center.

There are some other nearby hotels that participants can choose on their own if they prefer to make their own arrangements.

Selected Talks

24 contributions have been selected from the accepted abstracts for a 20-minute oral presentation.

Posters

Authors of all accepted abstracts are required to present a poster in the poster sessions.

Two poster sessions are scheduled in the afternoon sessions on **Tuesday, 8 September** and **Wednesday, 9 September** during the conference, with a total capacity of 160 posters. The maximum poster size is A0.

Posters with an even abstract number will be presented on Tuesday afternoon, while those with an odd abstract number will be presented on Wednesday afternoon.

Social Events

During conference registration, a travel agency is on-site to assist with arranging self-paid day tours. Please feel free to inquire at the registration desk.

Safety Caution:

Our resort hotel sits on the beachfront, where waves may occasionally become powerful. Please exercise caution when walking along the shore or taking part in any water activities.

Official Invitation and Visa

Conference participants are advised to check their passport validity and visa requirements for traveling to China well in advance. At present, citizens of 48 countries are exempt from visa requirements for up to 30 days when entering China for purposes including academic exchange, tourism, business, family visits, and conference participation (e.g. HCI2026). Detailed information and relevant links are available on our official webpage:

<https://indico.impcas.ac.cn/e/HCI2026>.

Proceedings

The HCI2026 conference proceedings will be published as a special issue of the journal *Nuclear Instruments and Methods B: Beam Interactions with Materials and Atoms* (NIMB). All manuscripts submitted to the HCI2026 proceedings will be subject to the same high standard papers refereeing as that of regular papers submitted to NIMB.

Submission Open Date: 1 September, 2026

Submission webpage:

<https://www.sciencedirect.com/special-issue/329921/proceedings-of-the-22nd-international-conference-on-the-physics-of-highly-charged-ions>

History of the HCI Conference Series

A full collection of HCI conference history is available at the following link:

<https://indico.impcas.ac.cn/event/75/page/159-hci-conference-historical-collection>.

International Advisory Board

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Related workshop

The 23rd SPARC Topical Workshop will take place between 12th and 15th of September 2026 in the Huizhou Branch campus of Institute of Modern Physics, Chinese Academy of Sciences (IMPCAS). Details can be found at:

https://indico.gsi.de/e/SPARC_2026 (Passcode: SPARC_2026)

Social activities/social program

- Reception:

A welcome reception will be held in the evening of Sunday, 6 September.

- HIAF tour/visit:

A guided tour of High Intensity heavy ion Accelerator Facility (HIAF) will be organized.

- Excursion:

An excursion to Turtle Island will be arranged following the HIAF tour.

- Conference dinner:

A conference dinner will be arranged in the evening of Thursday, 10 September 2026.

Contact Information

HCI2026@impcas.ac.cn

HCI2026 Conference webpage

<https://indico.impcas.ac.cn/e/HCI2026>

