



CONFERENCE
GUIDE

THE FOURTEENTH

**INTERNATIONAL
BEAM
INSTRUMENTATION
CONFERENCE**

Liverpool, UK

7 – 11 September 2025



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Welcome

from the IBIC 2025 Chair

It is our great pleasure to invite you to the 14th International Beam Instrumentation Conference (IBIC). In 2025, IBIC will come to England and take place in the beautiful city of Liverpool between 7 – 11 September. The conference will be jointly hosted by STFC, the Cockcroft Institute and the John Adams Institute.

IBIC is dedicated to exploring the physics and engineering challenges of beam diagnostic and measurement techniques for particle accelerators worldwide. It brings together the world community of experts in instrumentation for particle accelerators. The conference programme includes tutorials on selected topics, invited and selected talks, as well as poster sessions.

A scientific programme will be complemented by an industry exhibition featuring product manufacturers and service providers, as well as social events to encourage informal knowledge exchange. There will be a number of sponsorship opportunities for all those who would like to support the event and gain visibility.

We look forward to welcoming you in Liverpool!



Carsten P. Welsch

on behalf of the IBIC 2025 Local and International Organising Committees

Hosting Institutions

Science and Technology Facilities Council (STFC)

Formed in 2007, the STFC is a world-leading multi-disciplinary science organisation, with a goal to deliver economic, societal, scientific, and international benefits to the UK and its people—and more broadly to the world. Our strength comes from our distinct but interrelated functions:

- **Universities:** We support university-based research, innovation and skills development in astronomy, particle physics, nuclear physics and accelerator science.
- **Scientific Facilities:** We provide access to world-leading, large-scale facilities across a range of physical and life sciences, enabling research, innovation, and skills training in these areas.
- **National Campuses:** We work with partners to build National Science and Innovation Campuses based around our National Laboratories to promote academic and industrial collaboration and translation of our research to market through direct interaction with industry.
- **Inspiring and Involving:** We help ensure a future pipeline of skilled and enthusiastic young people by using the excitement of our sciences to encourage wider take-up of STEM subjects in school and future life (science, technology, engineering, and mathematics).

STFC supports an academic community of around 1,700 in particle physics, nuclear physics, astronomy and accelerator science, who work at more than 50 universities and research institutes in the UK, Europe, Japan and the United States. This includes a rolling cohort of more than 900 PhD students.



Science and
Technology
Facilities Council

stfc.ukri.org

The Cockcroft Institute (CI)

The Cockcroft Institute is a partnership between the Universities of Lancaster, Liverpool, Manchester and Strathclyde, and STFC. The core membership comprises the accelerator physics and engineering groups of the partner universities and the Accelerator Science and Technology Centre (ASTeC) of STFC at Daresbury Laboratory.

The CI is the de facto national centre for accelerator R&D in the UK. The institute comprises just over 200 academics, professional accelerator staff, post-doctoral research associates, administrative staff and PhD students, making it probably the largest of its kind in the world. Our activities include world-class R&D in RF-based systems and novel methods of acceleration with major contributions to the realisation of national and international accelerator facilities. Cross-cutting applications allow this expertise to be used to address global challenges in health, security, energy, manufacturing and the environment, and to train the next generation of accelerator experts in areas where there is a recognised international skills shortage. We also inspire school students and the general public through our extensive public engagement programmes.

The institute provides the intellectual focus, educational infrastructure and the essential scientific and technological facilities for accelerator science and technology research and development. This enables CI scientists and engineers to take a major role in innovating future tools for scientific discoveries and in the conception, design, construction, and use of the world's leading research accelerators.



The Cockcroft Institute
of Accelerator Science and Technology

cockcroft.ac.uk

John Adams Institute (JAI)

The John Adams Institute for Accelerator Science (JAI) was created in October 2004 in response to an initiative by the Particle Physics and Astronomy Research Council and the Council for the Central Laboratory for the Research Councils (now merged into the Science and Technology Research Council) to foster accelerator R&D in the universities.

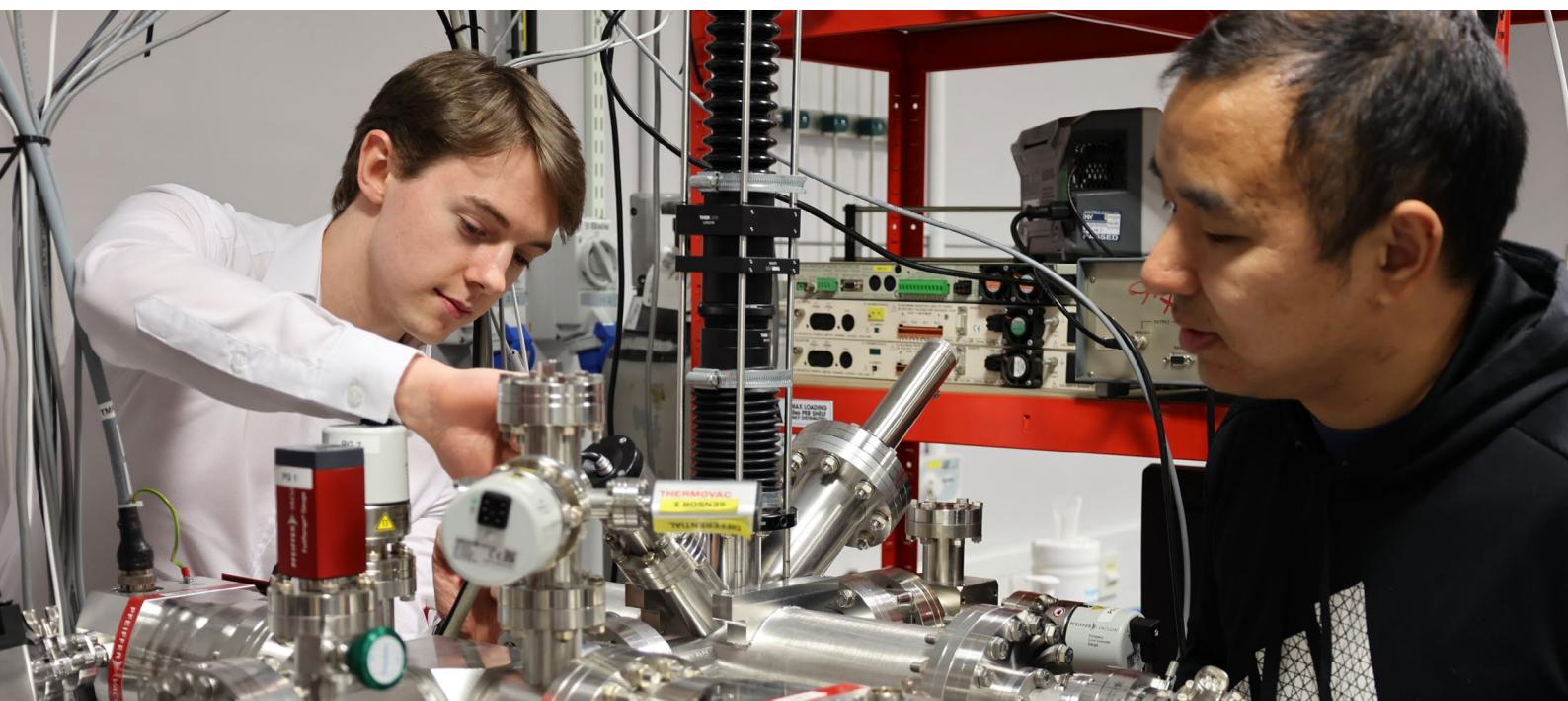
The next generation of particle physics needs the next generation of particle accelerators. The John Adams Institute is a UK and World leading research group dedicated to the research and development of particle accelerators.

Particle Accelerators are the huge machines that boost particles, the smallest components of nature, to speeds very close to the speed of light. Beams of these particles are collided, and in the wreckage strange new particles emerge. By looking at what new particles come out and how they come out, we can learn more about the structure of the universe itself.

Smaller particle accelerators also exist, and these can have applications closer to home such as in Archaeology, Zoology and Medicine.



adams-institute.ac.uk



Committees

Scientific Programme Committee

Tonia Batten, CLS, Canada

Gero Kube, DESY, Germany

Willem Blokland, SNS/ORNL, USA

Yongbin Leng, NSRL/USTC, China

Lorraine Bobb, Diamond, UK

Thibaut Lefevre (Deputy Chair), CERN,
Switzerland

Jianshe Cao, IHEP, China

Hirokazu Maesaka, SPring-8, Japan

Alessandro Cianchi, University of Rome
Tor Vergata, Italy

Marco Marchetto, TRIUMF, Canada

Peter Forck, GSI, Germany

Patricia Henriques Nallin, LNLS, Brazil

Dave Gassner, BNL, USA

Kenichirou Satou, J-PARC, Japan

Nicolas Hubert, Soleil, France

Vic E Scarpine, Fermilab, USA

Aisha Ibrahim, Fermilab, USA

Volker Schlott, PSI, Switzerland

Rasmus Ischebeck, PSI, Switzerland

Carsten P. Welsch (**Chair**),
University of Liverpool, UK

Kevin Jordan, JLAB, USA

Marco Veronese, Elettra, Italy

Changbum Kim, PAL, Korea

Laura Torino, Alba, Spain

Prapong Klysubun, SLRI, Thailand

Junxia Wu, IMP, China

Patrick Krejcik, SLAC, USA

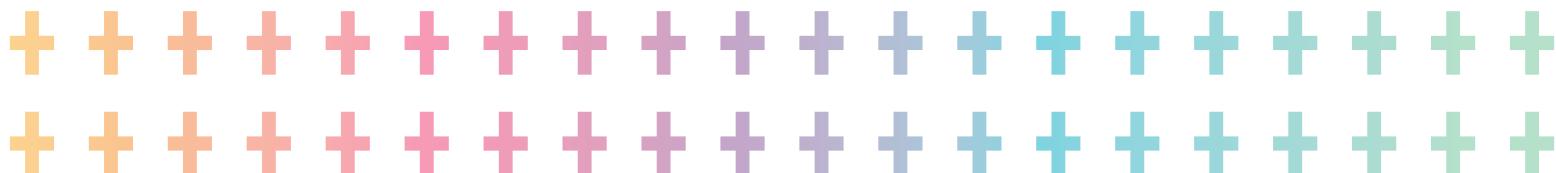
Junhui Yue, IHEP, China

Local Organising Committee

Hannah Acton, University of Liverpool	Narender Kumar, University of Liverpool
Gassan Ahmad, STFC UKRI	Valentina Malconi, STFC UKRI
Will Butcher, University of Liverpool	Daryl McManus, STFC UKRI
Andrew Collins, STFC UKRI	Milaan Patel, University of Liverpool
Lauryn Eley, University of Liverpool	Bharat Rawat, University of Liverpool
Lauren Ellams, STFC UKRI	Dominic Read, STFC UKRI
Stephen Gibson, RHUL	Emily Shackleton, STFC UKRI
Debdeep Ghosal, University of Liverpool	Naomi Smith, University of Liverpool
Ana Maria Guisao-Betancur, University of Liverpool	Ricardo Torres, University of Liverpool
Alex Hill, University of Liverpool	Joseph Wolfenden, University of Liverpool
Poppy Holford, STFC UKRI	Alexandra Welsch, University of Liverpool
Angus Jones, University of Liverpool	Carsten P. Welsch (Chair), University of Liverpool
Pavel Karataev, RHUL	Hao Zhang, University of Liverpool

Studentship Selection Committee

Willem Blokland, SNS/ORNL, USA	Rasmus Ischebeck, PSI, Switzerland
Lorraine Bobb (Chair), Diamond, UK	Gero Kube, DESY, Germany
Peter Forck, GSI, Germany	Yongbin Leng, NSRL/USTC, China
Nicolas Hubert, Soleil, France	Volker Schlott, PSI, Switzerland
Aisha Ibrahim, Fermilab, USA	Laura Torino, Alba, Spain



IBIC 2025 is Going Greener

At IBIC 2025 we will be encouraging delegates, supporters and exhibitors to be as environmentally friendly and sustainable as possible, by including the following initiatives:

1. Minimal paper giveaways on stands and in delegate bags
2. Minimal single use plastics throughout conference
3. Recycled and recyclable or reusable event collateral throughout conference
4. Recycled or reusable sponsored delegate items
5. Online conference guide and exhibitor manual



Policies

Data collection and Reporting

To understand the diversity of the delegates attending IBIC 2025, both online and in person, we are asking participants to provide some demographic information when registering. Providing this personal data is voluntary, and all personal information will be kept strictly confidential. The data will help conference organisers assess whether we are meeting our diversity goals and identify areas for improvement in future conferences and events. This information will only be used to generate conference statistics and will be optional to provide. The overall statistics will be made publicly available on our website after the conference.

Non-discrimination Policy and Anti-harassment Policy

It is the policy of the IBIC 2025 conference that all participants will enjoy an environment which encourages the free expression and exchange of scientific ideas, and is free from all forms of discrimination, harassment and retaliation. In the event of an incident of bullying or harassment, the local and international organisation committee chairs will consult with anyone who has been subjected to harassment and will suggest ways of redressing any problems. They will also identify an advisor who will counsel those accused of harassment. The conference organisers may, after due consideration, take such action they deem appropriate, including warning or expulsion from the conference without refund. If you are being harassed, notice that someone else is being harassed, or have any other concerns, please contact IBIC2025@stfc.ac.uk or a member of the organising committee.

Harassment includes offensive verbal comments, sexual images visible in public spaces, deliberate intimidation, stalking, harassing photography, or recording; sustained disruption of talks or other events; inappropriate physical contact, and unwelcome sexual attention.

Exhibitors in the industrial exhibition are also subject to the anti-harassment policy.

Participants are expected to follow these rules through the entire conference, including every event of the scientific program, on the online platform, and at the conference social events.

Delegate Cancellation and Refund Policy

Any changes and cancellations must be communicated in writing to the IBIC 2025 Local Organising Committee at IBIC2025@stfc.ac.uk. For cancellations, pre-paid registration fees are refundable less a £100 processing fee if notification of cancellation is received in writing by 31 July 2025. Cancellations after 31 July 2025 will result in forfeiture of the entire registration fee; however, a substitute registrant will be accepted. This policy also applies to companions. Refunds may be granted for no-shows under extenuating circumstances at the sole discretion of the IBIC 2025 organisers. Refunds will be made by credit card or bank transfer, depending on the original payment method. This policy also applies to extra tickets for outings and social functions.



Equality, Diversity and Inclusion

The organisers of IBIC 2025 are committed to removing barriers which may prevent certain groups in the community from attending or participating in the conference to ensure attendance at conferences represents as much of the community as possible.

We have adopted several policies that attempt to ensure the conference environment is inclusive of all people, regardless of their race, ethnicity, gender, sexual orientation, age, physical abilities, or religious beliefs.

Diversity and Representation

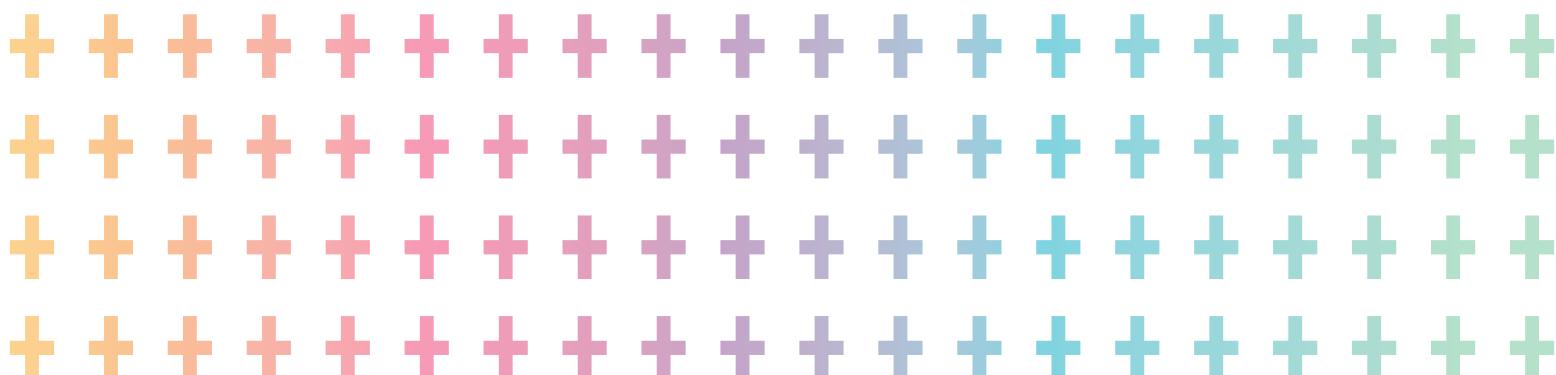
The Scientific Programme Committee of IBIC 2025 aims to achieve a diverse range of speakers from the accelerator community. Effort is invested to ensure diversity in speakers across regions, gender and career level. The data on speaker, delegate and committee diversity will be made available on the conference website.

Inclusivity

We have some measures in place to establish an inclusive conference. At the conference venue, a quiet room will be available for delegates who wish to take a break from the regular conference programme. A prayer room for delegates who wish to pray and a parent room for delegates with small children will also be available.

Why does IBIC 2025 registration ask for my pronouns?

IBIC 2025 seeks to create a safe space for all participants. As part of this, we ask delegates to include their preferred pronouns on their name badge to help make this standard conference procedure.

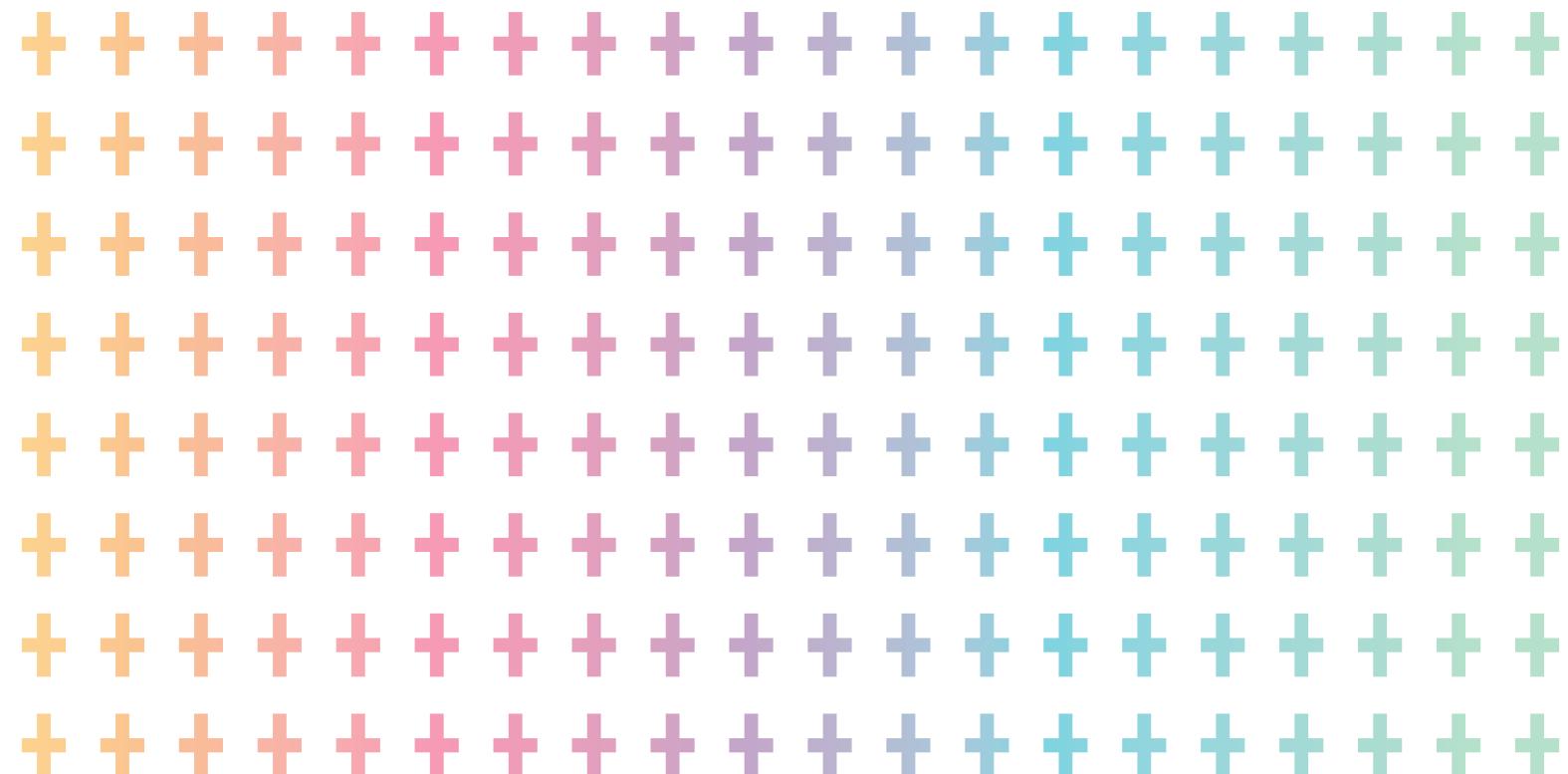


How can delegates contribute to fostering an inclusive atmosphere?

All members of the accelerator community can contribute to establishing an inclusive environment.

We can do this by:

- practicing respectful communication
- making space for other voices
- giving credit appropriately
- criticising respectfully and constructively
- including pronouns on your name tag when registering
- contacting the conference organisers if you have concerns



Important Dates

Exhibitor booth early registration deadline	31 October 2024
Registration opens	27 January 2025
Abstract submission opens	10 February 2025
Delegate early registration deadline	31 March 2025
Student grant application deadline	31 March 2025
Abstract submission closes	30 April 2025
Sponsorship registration deadline	31 May 2025
Faraday Cup Award application deadline	31 May 2025
Delegate regular registration deadline	30 June 2025
Exhibitor booth late registration deadline	31 July 2025
Delegate late registration deadline	31 July 2025
Paper submission deadline	3 September 2025
Welcome reception	7 September 2025
Conference and industry exhibition begins	8 September 2025
Industry exhibition ends	10 September 2025
Conference banquet	10 September 2025
Conference ends	11 September 2025
Daresbury Laboratory visit	11 September 2025

Registration

Information for Full Delegates

Registration Fees

- Early registration £550
- Regular registration £650
- Late registration £750

All participants must register and pay the appropriate fee, including invited speakers and chairpersons. **Payment must be made before 31 March 2025 for an early-registration discount.** Please note that the discount depends on the payment time, not the registration time.

Registration is required for admission to the conference and only confirmed once the payment has been received. Participants should not reserve a slot by registering early and not paying – this puts them at risk of losing their registration. Rather, they should register and pay, and should their circumstances change, or their visa not be issued, they would then request a refund of their fees. In any case, admission to the conference will be granted only upon receipt of the registration fee. Delegates who have made late payments should bring proof of payment to the conference for registration check-in.

Post-doctoral researchers, fellows, and exhibitors should register as Full Delegate registration option. Students working toward a diploma or PhD should choose the student option and pay for the **student registration fee**.

Registration Inclusions

- Entry to all sessions.
- Morning and afternoon coffee daily.
- Lunches: Monday – Wednesday, and packed lunch on Thursday.
- Welcome Reception.
- Daresbury Laboratory Visit.
- Attendance at Conference Banquet Dinner.
- Entry to Industrial Exhibition.

For more information about Exhibitor, Delegate, Companion or Student registration, please visit ibic2025.org.

The Venue

The University of Liverpool

Founded in 1881 as the original 'red brick', the University of Liverpool is one of the UK's leading research-intensive higher education institutions with an annual turnover of £614.9 million, including an annual research income of £145 million.

Consistently ranked in the top 200 universities worldwide, the university is a member of the prestigious Russell Group of the UK's leading research universities and has a global reach and influence that reflects its academic heritage as one of the country's largest civic institutions.

The University has more than 30,000 students, about 8,000 of whom travel from all over the world to study in Liverpool, and a thriving community of more than 270,000 alumni in 187 countries. Our global focus has led to the establishment of a university in Suzhou near Shanghai, as well as partnerships with research institutes, universities, industry, governments, and foundations all over the world.

The University of Liverpool has a strong heritage of public and global health research and knowledge leadership. Our ideas, innovations, and enterprises have helped us respond to grand challenges since our inception. Today, research expertise and knowledge leadership at Liverpool has enabled the University to respond to Covid-19 with agility and at scale, delivering significant impact.

Campus Map



Conference Sessions

The conference sessions will be held in Teaching Hub 502, a dedicated teaching and learning facility at the University of Liverpool. It is designed to provide a modern and flexible space for lectures, seminars, and other academic activities, supporting a range of teaching methods and technologies.

It includes several large lecture theatres with tiered seating, which are designed to accommodate significant numbers of delegates. These theatres are equipped with the latest technology to enhance the conference experience.

The Teaching Hub 502 is directly connected with the Liverpool Guild of Students.

Industry Exhibitions

The industry exhibition will be held in the Mountford Hall and the Courtyard of the Liverpool Guild of Students, the students' union of the University of Liverpool. The Liverpool Guild of Students is a historic building situated on the university campus.

Mountford Hall has a rich history and has been a central part of the student union building for many years. The hall is particularly known for its live music events and has hosted numerous famous bands and artists over the years, making it a popular destination for music fans in Liverpool and beyond.

The Courtyard is an integral part of the Liverpool Guild of Students, providing a versatile space for dining, socializing, and hosting events, enhancing the overall student experience at the University of Liverpool. This space is designed to provide a relaxed and casual environment.

Liverpool Guild of Students, 160 Mount Pleasant, L3 5TR, Liverpool

Accessibility

Venue Access

Liverpool Guild of Students (Registration and Industry Sessions)

The Liverpool Guild of Students is committed to ensuring that its facilities and services are accessible to all students, staff, and visitors, regardless of their physical abilities or needs. The main entrance to the Guild building is accessible to wheelchair users and individuals with limited mobility. There are ramps and automatic doors to facilitate easy access. Most areas within the Guild offer step-free access, ensuring that individuals with mobility issues or those using wheelchairs can move around without barriers.

Teaching Hub 502 (Conference Sessions)

The Teaching Hub 502 Building has three floors. The accessible entrances are at the front and the rear of the building. All floors are accessible via lifts located in the stairwells at the front and the rear of the building.

The conference level lighting is bright and there are contrasting colours to assist with navigation and for access doors. The conference level is all carpeted.

The lifts cannot be used in the event of a fire alarm.

Ground floor accessible emergency exits:

- Main entrances at the front and rear of the building, accessible via the main corridors.

Fire exits on other floors:

- Lower Ground floor Records Management area—at the rear of the records storage area to the loading bay and external ramp to the highway; the front and rear staircases which are accessed via the main corridor; from the office area through the storeroom and to an external staircase.
- First floor—fire exits to three staircases accessible via the corridors.
- There are four Evac Chairs which are located in each staircase. The staircase on the right hand side of the entrance lobby has an Emergency Voice Communications System to call for assistance on the first floor.

Hearing Disability

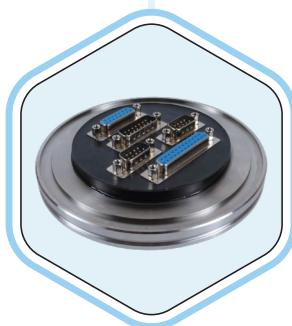
IBIC 2025 provides access to an Infra-Red Assistive Hearing System. If you have hearing loss, you can take out on loan a neck loop that works with the infra-red hearing system. The neck loop can be used in conjunction with hearing aids or to boost the sound via headphones. Please get in touch with us via ibic2025@stfc.ac.uk before the start of the conference if you would like to use this service.

[Learn more about hearing loops.](#)

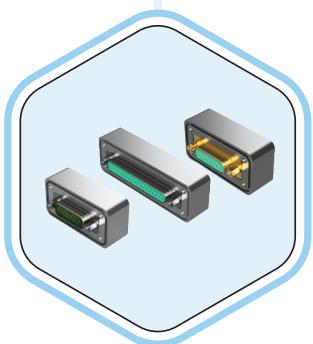
Assistance Dogs

The University of Liverpool welcomes delegates with assistance dogs. If you wish to bring an assistance dog onto campus, on the grounds of health and safety responsibilities to staff, students and visitors, the University will require evidence that a dog is formally registered with one of the assistance dog charities (e.g. hearing dogs for deaf people, guide dogs for the blind) including appropriate accreditation.





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LIV.INNO

JOIN US!

Partnership and collaboration with external organisations are a vital part of our commitment to cutting edge Research and Development (R&D) in data intensive science.

The Liverpool Centre for Doctoral Training for Innovation in Data Intensive Science (LIV.INNO) offers PhD students comprehensive training in data intensive science through cutting edge interdisciplinary research projects and a targeted academic training programme, complemented by secondments to national and international research partners and strong industry contributions.

We collaborate with industry, the public sector, and other organisations on a wide range of activities, including joint projects, skills training, technology transfer, and event support.

All our PhD students complete an industry placement, applying their data science skills to real-world challenges and gaining experience beyond academia.

Placement R&D is outside the student's core PhD topic, offering new experiences and fostering collaborative research between the CDT, students, and partner organisations.

We are always interested in forging relationships and facilitate knowledge exchange with SMEs, global players and other clinical and business organisations.

For more information, please contact:

Prof Dr Carsten P Welsch
LIVINNO Director
University of Liverpool
c.p.welsch@liverpool.ac.uk

Scientific Programme

Time	Sunday, 7 th September	Monday, 8 th September	Tuesday, 9 th September	Wednesday, September 10 th	Thursday, September 11 th
(UTC+8)		MOA: Welcome / Overview and Commissioning Chair: Carsten P Welsch (University of Liverpool)	TUA: Data Acquisition and Processing Platforms Chair: Lorraine Bobb (Diamond)	WEA: Feedback Systems and Beam Stability / Beam Position Monitors Chair: Changbum Kim (PAL)	THA: Longitudinal Diagnostics and Synchronization Chair: Hirokazu Maesaka (SPRING-8)
09:00		Carsten P Welsch (University of Liverpool) Welcome & Opening Remarks	TUA01: Giulio Gaio (Elettra) High-Throughput DPDK-Based Framework for Real-Time Applications in Elettra 2.0	WEAT01: Sajjad Hussain Mirza (DESY) Tutorial: Stable Orbits, Brighter Beams: Understanding and Controlling Orbit Stability in 4th Generation Synchrotron Light Sources	THAI01: Parker Landon (Boston University) Experimental Investigation of Selective Photo-Detachment for Longitudinal Scraping in H⁺ Linacs
09:10		MOAKN01: Joseph Wolfenden (University of Liverpool) Keynote talk : UK Accelerators and Beam Instrumentation			
09:20		Tim Jones (University of Liverpool) Vice-Chancellor's Welcome Address	TUA02: Kishansingh Rajput (JLAB) Towards to continual machine learning for your ever changing accelerator		THAI02: Johan Lundquist (Lund University) Multi-Facility Virtual Diagnostic for Longitudinal Phase Space Imaging
09:30		MOAI01: Thomas Shea (ESS) Experience with proton beam instrumentation during commissioning of the ESS superconducting linac			
09:40		MOAI01: Derek Steinkamp (Fermilab) Control-Agnostic Beam Instrumentation with Redis at the Core		WEAC01: Max Bosman (RHUL) Analysis of a phase modulated Interferometric Electro-Optic BPM at the CERN SPS	THAC01: Gian Luca Orlandi (PSI) Characterization of sub-femto-second pulse duration of low-charge electron bunches using a Bunch-Compressor-Monitor at SwissFEL
09:50		Conference Photo (10:10-10:20)			
10:00			Coffee break (10:20-10:50)		
10:10		MOB: Beam Charge and Current Monitors Chair: Kevin Jordan (Jlab)	TUB: Feedback Systems and Beam Stability Chair: Tonia Batten (CLS)	WEB: Beam Loss Monitors and Machine Protection Chair: Patricia Henriques Nalin (NLNLS)	THB: Longitudinal Diagnostics and Synchronization / Special Talks / Closing Session Chair: Thibaut Lefevre (CERN)
10:20		MOB01: Lee Jones (STFC/ASTeC) Transverse Momentum Measuring Systems: The Cryogenic Momentum and the TESS	TUB01: Yudong Liu (IHEP) Experimental investigation of beam instabilities in BEPCII	WEB01: Gaku Mitsuka (KEK) Simultaneous measurements with fast beam size and position monitors disentangle the sudden beam loss evolution mechanism	THBC01: Jiri Kral (DESY) High-performance bunch arrival time monitors with fs precision at DESY
10:50		MOBC01: Thomas Sieber (GSI) Measurement of nA Beam Intensities at FAIR	TUBC01: Seb Wilkes (University of Oxford) Isolating the light of a single bunch: determining the viability of operating vertical-plane 'Pulse Picking by Resonant Excitation' at Diamond-II to serve timing mode users	WEBC01: Sara Morales Vigo (CERN) BLM signal thresholds for ion operation during the LHC Run 3	THBI01: Benjamin Rienaecker (University of Liverpool) Positronium Laser Cooling: A Science Highlight and Instrumentation Challenges
11:00		MOBC02: João Marafuz Gaspar (CERN) Performance study of Fast Beam Current Transformer calibration in the LHC	TUBC02: Fusashi Miyahara (KEK) Beam diagnostics, data acquisition system, and applications of machine learning at the KEK e⁺/e⁻ Linac	WEBC02: Alan Fisher (SLAC) Lessons learned in commissioning the new beam-loss monitors for the superconducting upgrade to LCLS	IBIC 2026 Report
11:10			Lunch break (12:00-13:00)		
11:20		MOC: Overview and Commissioning Chair: Volker Schiott (PSI)	TUC: Special Talks / Machine Parameter Measurements Chair: Lauryn Eley (University of Liverpool)	WEC: Transverse Profile and Emittance Monitors / Machine Parameter Measurements Chair: Gero Kube (DESY)	Concluding Remarks and Closing
11:30		MOC01: Boris Kell (PSI) Commissioning and First Operation of SLS 2.0, the Upgrade of the Swiss Light Source	TUCPD01: Dame Jocelyn Bell Burnell Panel discussion : Breaking Boundaries: Innovation and Inclusion in Instrumentation Science	WECI01: Nathan Majernik (SLAC) Machine Learning-based beam sculpting and measurement using a multileaf collimator and emittance exchange	
11:40		MOCC01: Katsuhiro Moriya (J-PARC) Current Activities of the Beam Diagnostics System in the J-PARC Linac		WECI02: Paul Denham (UCLA) Experimental demonstration of a single-shot, nondestructive electron beam diagnostic based on the ionization of a low-density pulsed gas jet	
11:50		MOCC02: Aurora Ortega Moral (IFMIF-DONES) Beam diagnostics for IFMIF-DONES: Addressing the challenges of high-power irradiation facilities	TUCC01: Aurelia Laxdal (TRIUMF) Novel method for real-time temperature monitoring of isotope production targets	WECC01: Francesca Addesa (PSI) Minimally Invasive Nano-Fabricated Wire Scanner for FEL Operations	
12:00			Coffee break (14:20-14:50)		
13:00		MOD: Overview and Commissioning / Beam Charge and Current Monitors Chair: Peter Forck (GSI)	TUD: Transverse Profile and Emittance Monitors Chair: Junxia Wu (IMP)	WED: Beam Position Monitors Chair: Marco Marchetto (TRIUMF)	
13:10		MODI01: Weixing Cheng (APS) The Role of Beam Diagnostics during APS-U Commissioning	TUDI01: Erin Flannigan (STFC) A Review of Space Charge Compensation Diagnostics	WEDI01: Laura Torino (ALBA-CELLS) Summary of the workshop on BPMs buttons for synchrotron light sources	
13:20		MODC01: Hong Ming Xie (IMP) The BI system design and preliminary tests for HIAF	TUDC01: Hao Hu (HUST) Study of super-resolution reconstruction in transverse phase space measured via slit-scanning method	WEDC01: Mark McCallum (JAI) Design, characterization, and validation of a pulsed RF burst source for in-situ beam position monitor calibration	
13:30		MODC02: Alexander Jury (University of Liverpool) Performance Analysis of the LHC BSRL and Possible Improvements	TUDC02: Dechong Zhu (IHEP) Beam profile measurement with pinhole camera and Kirkpatrick-Baez mirror at HEPS	WEDC02: Gabriele Trovata (University of Catania) Sub-2 μm Silicon Carbide Membranes for In-Line X-ray Beam Monitoring Across Soft to Hard Energy Ranges	
13:40		Poster Session (16:00-18:00)	Poster Session (16:00-18:00)	Poster Session (16:00-18:00)	
13:50		Transportation to Chair's Reception 18:00			
14:00		Chair's Reception (by invitation only)	SPC Meeting	Conference Banquet Dinner	
14:10					
14:20					
14:50					
15:00	Registration (opens 15:00) Welcome Reception 18:00-21:00 Courtyard and Mountford Hall				
15:10					
15:20					
15:30					
15:40					
15:50					
16:00					
17:00					
18:00					
18:00					
21:00					
23:00					

Student Financial Support

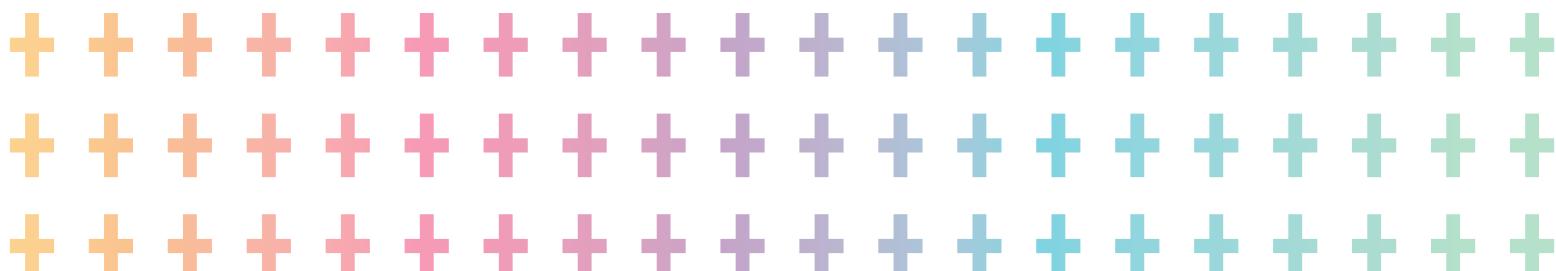
IBIC 2025 is pleased to say that financial support can be made available to 10 selected students registered for a PhD or degree in accelerator physics or engineering. The scholarship covers the registration fee and hence access to all IBIC 2025 sessions, the welcome reception, coffee breaks and lunches, the laboratory visit and formal dinner, as well as a shared room. It does not normally cover travel expenses.

With big thanks to our conference sponsors, we are pleased to confirm that the following students were awarded an IBIC 2025 scholarship:

- Quentin Demazeux, Université de Lille, France
- Emily Howling, CERN, Switzerland
- Hao Hu, HUST, China
- Can Liu, NSRL and USTC, China
- Sushant Sapkota, ISIS, UK
- Nimue Schmidt, GSI, Germany
- Blae Stacey, DESY, Germany
- An Wang, NSRL and USTC, China
- Yunzhi Xiao, USTC, China
- Yifeng Zeng, HUST, China

Responsibilities of Financial Support Recipients

Supported students will be expected to submit a contribution to the conference and proceedings, and support conference activities as needed, e.g. by serving as a session assistant.



Industry Exhibition

IBIC 2025 is set to bring together more than 200 scientists and engineers from research institutions and laboratories worldwide, all engaged in the global beam instrumentation community.

The exhibition will feature product manufacturers and service providers and will run alongside the technical conference.

To ensure maximum visibility, the exhibition hall will also host all poster sessions, refreshment breaks, and the Welcome Reception.

For general inquiries about the industrial exhibit, please contact our exhibition coordinator Joseph Wolfenden (joseph.wolfenden@cockcroft.ac.uk).

The exhibition will take place in the Liverpool Guild of Students, Mountford Hall and The Courtyard.

The exhibit hours are **Monday – Wednesday, 8 – 10 September 2025, 9:00am – 6:00pm**.

For further information about the industrial exhibit, sponsorship opportunities and how to book a stand, please visit ibic2025.org.



Exhibitors and Sponsors



Alllectra GmbH

Booth 15



Amentum

Booth 18



Bergoz Instrumentations

Booth 7



CAENels ELS

Booth 13



Cividec

Booth 19



Crytur Ltd.

Booth 14



Dimtel

Booth 6



Hamamatsu

Booth 17



Institute of Physics



Instrumentation Technologies

Booth 8



Instruments



Jacarem



Kashiyama Vacuum Solutions

Booth 5



NTG Neue Technologien GmbH

Booth 4



Physics World



Proactive R&D

Booth 2



QUASAR Group



RadiaSoft

Booth 3



Royal Holloway

Booth 10



Safran

Booth 12



Sensic

Booth 9



Teledyne SP Devices

Booth 1



UHV Design

Booth 20



University of Liverpool

Booth 11



XRnanotech AG

Booth 16

Daresbury Laboratory Tour

Warrington, UK

Thursday 11 September 2025

A tour of Daresbury Laboratory will take place for delegates after the end of the main conference. Coach transport to and from Daresbury will be provided.

The tour will include visits to the advanced electron accelerator test facility CLARA, as well as various other areas including the Superconducting RF test facility and the Vacuum lab. As well as these visits a talk outlining the research undertaken at Daresbury will be given by Professor Jim Clarke, Head of ASTeC.

- 13:00** Departure from University Campus
- 13:45** Arrival at Daresbury Laboratory and refreshments
- 14:00** Tour starts
- 15:00** Talk by Professor Jim Clarke and refreshments
- 15:45** Tour resumes
- 17:00** Departure from Daresbury Laboratory
- 18:00** Arrival at University Campus

Places on this tour are limited so please ensure you sign up when registering if you wish to attend.

CLARA at Daresbury Laboratory

(Image credit: STFC)

Satellite Event

Would you like to organise a satellite event as part of IBIC 2025?

We welcome proposals for workshops, networking sessions, panel discussions, and other events that complement the main conference program.

If you are interested, please get in touch with us at IBIC2025@stfc.ac.uk with the following details:

- Event title and brief description
- Proposed date and duration
- Target audience and expected number of participants
- Any logistical or technical requirements

We look forward to hearing your ideas and working with you to enhance the IBIC 2025 experience!



Social Events

Welcome Reception

**IBIC 2025 Industry Exhibition Venue,
Courtyard and Mountford Hall,
University of Liverpool
Sunday 7 September 2025**

The Courtyard and Mountford Hall are versatile event venues located within the Liverpool Guild of Students at the University of Liverpool.

Reception: 18:00–21:00

Chair's Reception (by invitation only)

**Liverpool Football Club, Anfield
Monday 8 September 2025**

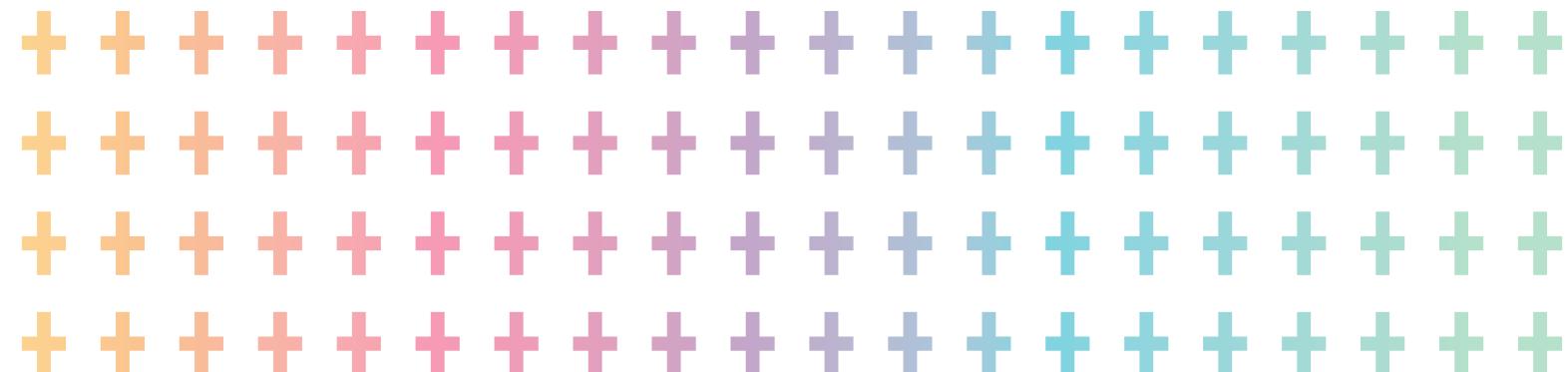
Anfield, home of Liverpool Football Club, is a venue with a history and tradition of delivering world class events, and now with the addition of the expanded Main Stand it is also one of the largest all seater single stands in Europe. Visible from several points in the city, it adds another impressive landmark to the world-renowned Liverpool skyline.

It's not just on the pitch that the development enhances the club's status as a world class institution; This new era for the Football Club provides an opportunity for guests to experience events at Anfield like never before.

Departure from University Campus: 18:00

Dinner: 18:30–22:30

Arrival at University Campus: 23:00



Conference Banquet Dinner

Rum Warehouse, Titanic Hotel Liverpool

Wednesday 10 September 2025

Rum Warehouse is a stunning and versatile event space located at the Titanic Hotel within Liverpool's historic Stanley Dock. Originally built in the 1950s to store imported rum, the building has been meticulously restored and transformed into a large, industrial-chic venue with floor-to-ceiling glazing and expansive dockside views.

Departure from University Campus: 18:30

Dinner: 19:00 – 23:00

Arrival at University Campus: 23:30



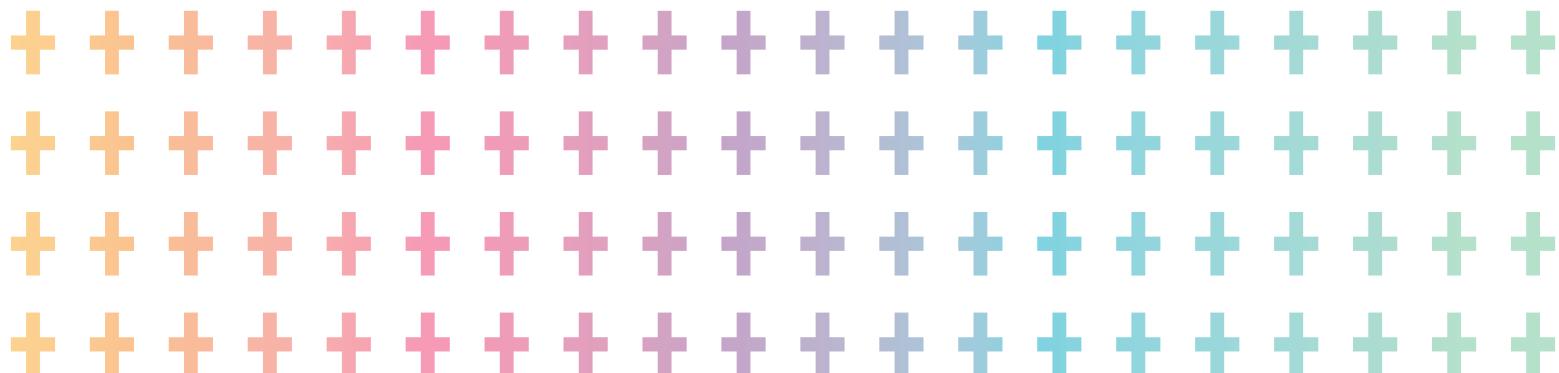
Faraday Cup Award

The Faraday Cup Award is a prize that is awarded for an outstanding contribution to the development of an innovative beam diagnostic instrument of proven workability. The prize is awarded only for devices with a demonstrated and published performance.

The Scientific Programme Committee of the IBIC conference acts as the selection Committee for the Faraday Cup Award, and the announcement of the winner will be made at the conference, where the winner will also be given the opportunity to give a special award talk about their research

For more information, see the [Faraday Cup Homepage](#).

This year's Faraday Cup Award is sponsored by **Dimtel**.



General and Local Information

About Liverpool

Liverpool is noted for its culture, architecture, and transport links. The city is closely associated with the arts, especially music; the popularity of the Beatles, widely regarded as the most influential band of all time, led to it becoming a tourist destination. The city also has a long-standing reputation for producing countless actors and actresses, artists, athletes, comedians, journalists, novelists, and poets. Liverpool has the second highest number of art galleries, national museums, listed buildings, and listed parks in the UK; only the capital, London, has more. In sports, the city is best known for being the home of Premier League football teams Liverpool FC and Everton FC, with matches between the two rivals being known as the Merseyside derby.

Several areas of Liverpool city centre carried World Heritage Site status from 2004 until 2021. Its status as a port city historically attracted a diverse population from a wide range of cultures. It is also home to the oldest black community in the UK and the oldest Chinese community in Europe. Natives of Liverpool (and some long-time residents) are formally referred to as "Liverpudlians" but are more often called "Scousers" in reference to Scouse, a local stew made popular by sailors in the city, which is also the most common name for the local accent and dialect.

How to get to the venue

Air

From Liverpool John Lennon Airport (LPL)

Liverpool John Lennon Airport is eight miles from the city and is best reached by taxi or the express bus, directly outside the entrance to the airport terminal.

The service is Arriva—Liverpool John Lennon Airport to Liverpool.

The Arriva 500 bus service is now the fastest bus service to operate between the Airport and the city centre (Liverpool ONE Bus Station). Running between the Airport and Liverpool city centre (including Great Charlotte Street for Lime Street Rail Station), buses operate every 30 minutes between 4:00 in the morning and midnight every day. You can also get buses 86A*, 82A and 80A* to Liverpool city centre.

Please visit the [Liverpool John Lennon Airport website](#) for more information.

From Manchester Airport (MAN)

If you head to the train station, within the airport, there is the option of getting to Liverpool by train or coach (National Express services).

National Express provides a regular bus service every day from Manchester Airport to Liverpool coach station next to Liverpool ONE, just a 20-minute walk from the conference venue.

Please visit the [Manchester Airport website](#) for more information.

Train

The conference venue is a 15-minute walk from Lime Street Station or a short taxi ride.

A quick and easy way to book train tickets is via [Trainline](#). You can download the Trainline app on [Apple App Store](#) and [Google Play Store](#).

Taxi

Sign up to ride or download the Uber app, available on Apple App Store and Google Play. Alternatively, you can call a local taxi company and request a taxi.

Taxi services across Liverpool:

- Alpha Taxis: Call +44 (0)151 722 8888
- Comcab Liverpool: Call +44 (0)151 298 2222 or visit [comcab.co.uk/liverpool](#)

Car/Parking

Parking near the conference venue is limited and we strongly advise to arrive via public transport.

Public Car Parks

Mount Pleasant Multi-Storey Car Park (38 Mount Pleasant, L3 5TB): This is a public car park close to the University of Liverpool, operated by Liverpool City Council, which offers public parking with reasonable rates. No lifts are currently available in this car park. Pedestrian access is via level 1 and level 5 on Brownlow Hill. Free for Blue Badge holders all day, when parked in designated disabled parking bays on level 5 only. Open 24 hours a day, 7 days a week.

Paddington Village Multi-Storey Car Park (Elm Grove, L7 3FA): This modern car park, operated by Liverpool City Council, is about a 10-minute walk to the conference venue. Open 24 hours a day, 7 days a week. Rates are significantly higher than at Mount Pleasant car park.

On-Street Parking

There are various on-street parking spots available around the University of Liverpool campus. Be sure to check signage for restrictions and fees as they vary by location and time of day.

Visas

Delegates originating from certain countries will require a visa in order to visit Liverpool. If you need to obtain a visa and would like us to provide you with a visa support letter for your application, please select the appropriate button when completing your registration form. For us to issue you with a visa letter you will need to provide us with your passport information during registration.

Information about visas for international travel to the conference is available on [GOV.UK](#).

Requests for internal process invitation letters

For individuals who are required to secure funding to travel from their laboratory, an official IBIC 2025 letter of invitation request can be made by contacting IBIC2025@stfc.ac.uk.

Electronic Travel Authorisation

An Electronic Travel Authorisation (ETA) is a new requirement for people who do not need a visa to come to the UK. It gives you permission to travel to the UK, and it is electronically linked to your passport.

Eligible non-Europeans need an ETA to travel to the UK.

Eligible Europeans can apply from 5 March 2025 and will need an ETA to travel from 2 April 2025.

An electronic travel authorisation (ETA) lets you travel to the UK for tourism, visiting family or certain other reasons for up to 6 months.

An ETA costs £16.

More information and how to apply can be found on [GOV.UK](#).

Internet

If you are visiting from an institution that participates in the eduroam scheme, you can login to the secure eduroam Wi-Fi service using your usual username and password.

GuestUoL accounts can be provided upon request. Please get in touch with a member of staff at the registration desk.

Safety and Security

Please wear your IBIC 2025 lanyard at all times when within the conference venue.

We would like to reassure our delegates that your safety is always of the absolute utmost importance to us. We want to ensure you have an enjoyable experience when you come to the University of Liverpool and that you remain safe. We have a team of dedicated security who are highly trained and experienced.

Visitors to the conference may have their bags searched. We therefore ask you to consider keeping bags and possessions to a minimum. We would also ask you to consider the size of your bags, no larger than a laptop bag is advisable. Please note that large bags and suitcases may also be searched.

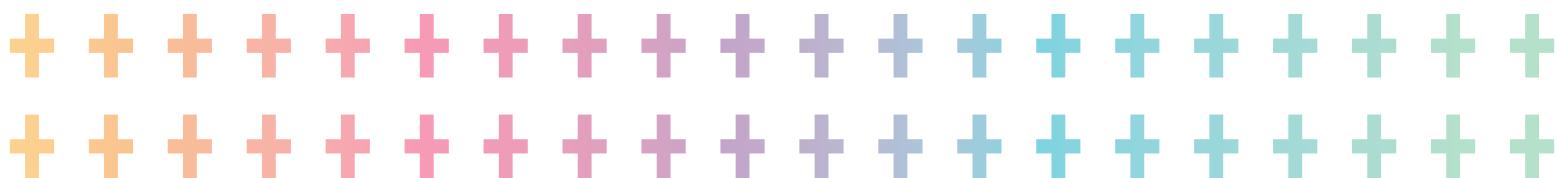
We ask you to remain vigilant. Please alert our team members if you notice anything you feel uncomfortable with. Your safety is paramount to us.

Liability and Insurance

The organisers are not liable for damages and/or losses of any kind which may be incurred by the conference delegates or by any other individuals accompanying them, both during the official activities as well as going to/from the conference. Delegates are responsible for their own travel and belongings.

Dress Code

All guests in attendance are required to be fully dressed and wear shoes at all times for their own safety. The venue and organisers reserve the right to deny entry to guests wearing clothing items displaying offensive text and/or images. The dress code for the conference dinner is **formal**.



Official Language

The official working language at the conference is English and no translation is offered.

Time Zone

The United Kingdom uses Greenwich Mean Time or Western European Time (UTC) and British Summer Time or Western European Summer Time (UTC+01:00).

Currency

You will use pound sterling (£GBP) while you're here. One pound is divided into one hundred pence (100p). Notes are issued to the value of £50, £20, £10 and £5, and coins to the value of £2, £1, 50p, 20p, 10p, 5p, 2p and 1p. Many restaurants and venues will not accept £50 notes, and payments are usually made by debit or credit card.

The nearest ATM can be found next to Tesco Express on Brownlow Hill. A 2-minute walk from the conference venue.

Tipping

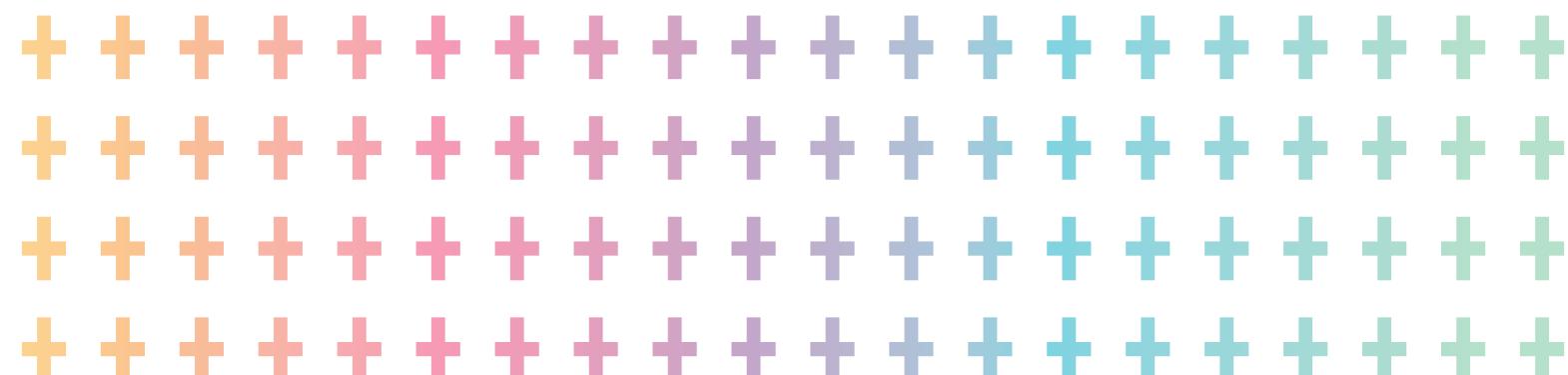
There is no hard rule when it comes to tipping in the United Kingdom. No-one should feel obligated to tip but if the situation comes up, you can.

Smoking Ban

Smoking is banned in all indoor public places, restaurants and bars in Liverpool. The conference is a no-smoking event and smoking is not permitted at the venue.

Electrical Plugs

UK appliances are fitted with a three-pin plug. Wall sockets have a switch controlling power supply. Adapters are easy to find; if your country uses lower voltage than the UK average of 230V, you may also need a converter.



Climate

Temperature (°C)	August	September
Average	15.3	13.4
Minimum	11.5	10
Maximum	19.1	16.9
Rainfall (mm)	78	80

You won't need gloves, but you might need a couple of sweatshirts/hoodies, waterproof walking shoes, kagoul. Weather can vary massively in Liverpool! We've had long warm spells in September, but the next day could be raining and cold. So, a warm jacket/raincoat and an umbrella is advisable. You might like to dress layers in case it gets warm.

International Dialling Code

The international dialling code for the UK is +44.

First aid at the venue

Emergency number on campus of the University of Liverpool: **+44 (0) 151 794 2222**

This number should be used in the case of an emergency, it is the equivalent to 999 on campus. It links you through to Campus Support who will provide an emergency response 24 hours a day.

In case of an emergency

999 and **112** is the national **emergency** response service in the UK (police, ambulance, fire and HM Coastguard). This is when someone is seriously ill or injured and their life is at risk. 112 is the pan-European equivalent to 999 and can be used in the UK.

Dialling 112 or 999 will get you the emergency services roaming on any UK network.

Call **111** if you need **urgent medical help** or you're not sure what to do. They will ask questions about your symptoms, so you get the help you need.

You can also call the police on **101** for **non-emergency** enquiries.

Hospitals

The Royal Liverpool University Hospital

Prescot Street, Liverpool, L7 8XP

Phone: 0151 706 2000

Website: rlbuht.nhs.uk

Liverpool Women's Hospital

Crown St, Liverpool, L8 7SS

Phone: 0151 708 9988

Website: liverpoolwomens.nhs.uk

Walk-in Centre

Liverpool City Centre NHS Walk-in Centre

Linda McCartney Centre, Ground Floor, Liverpool University Hospitals NHS Foundation Trust

Prescot Street, Liverpool, L7 8XP

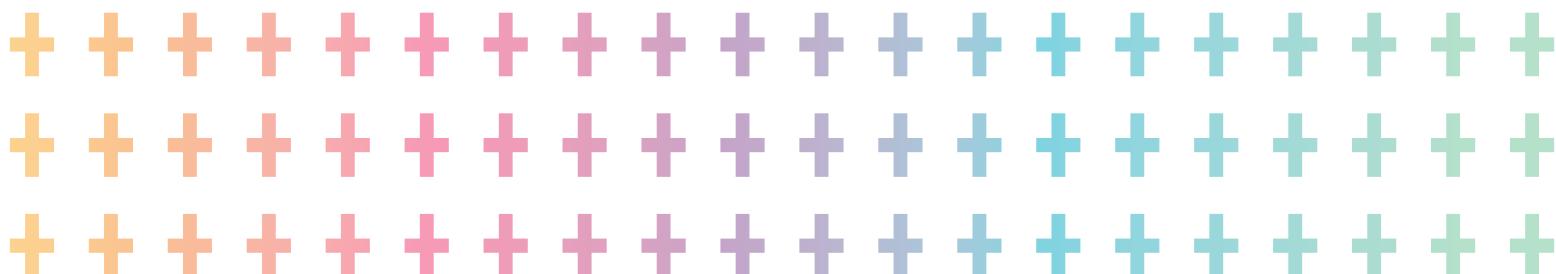
Phone: 0151 247 6500

The City Walk-in Centre is open **08:00 – 20:00** seven days per week.

You can walk in without an appointment, but should you wish to make one you can do so via 111.nhs.uk or by calling 111.

Our Walk-in Centres are run by a team of highly skilled multidisciplinary staff, who can provide consultations, advice and treatment for minor injuries and illnesses in both children and adults.

Please click here for more information about [urgent treatment and walk-in centres](#).



Pharmacies

Chemist Cares

37 Myrtle St, Liverpool L7 7AJ

Phone: 0151 709 7796

Euro Chemist

Euro House, 16-20 Berry St, Liverpool L1 4JF

Phone: 0151 708 0778

Central Pharmacy

Abercromby Health Centre, Grove St, Liverpool L7 7HG

Phone: 0151 709 0647

Public Transportation

Catch the train

Avanti West Coast operates direct services from London Euston to Liverpool Lime Street (with a journey time of just over two hours). Other long-distance rail services also operate into Liverpool Lime Street station.

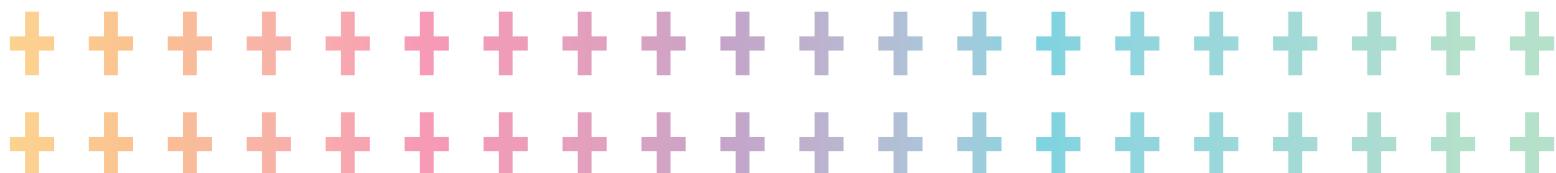
The conference venue is a 15-minute walk from Lime Street Station or a short taxi ride.

A quick and easy way to book train tickets is via [Trainline](#). You can download the Trainline app on [Apple App Store](#) and [Google Play Store](#).

Take the bus

The University of Liverpool is just a 20-minute walk from the Liverpool ONE retail development bus station, which also has long distance coach services. Local services connect to a shuttle bus service.

For more information, visit [merseytravel.gov.uk](#).



Local Attractions

World Museum

William Brown St, Liverpool, L3 8EN

From the sea to the stars, a visit to World Museum reveals millions of years of the earth's history through thousands of exhibits and hands on activities.

Liverpool Football Club

Anfield, Liverpool, L4 0TH

Meet an LFC legend; indulge yourself in one of the award-winning experience days of LFC Stadium Tours.

Walker Art Gallery

William Brown St, Liverpool, L3 8EL

The Walker Art Gallery holds a stunning collection of painting, sculpture and decorative arts spanning over six hundred years.

The Royal Albert Dock

3–4 The Colonnades, Liverpool, L3 4AA

Located on Liverpool's incredible waterfront, the Royal Albert Dock structure features the largest collection of Grade 1 listed buildings in the whole country.

The Beatles Story

Britannia Vaults, Royal Albert Dock, Liverpool, L3 4AD

The award winning 'The Beatles Story' is the world's largest permanent exhibition purely devoted to telling the story of the Beatles' rise to fame, located in the band's hometown of Liverpool.

British Music Experience

Cunard Building, Liverpool, L3 1DS

The British Music Experience tells the story of British Music through costumes, instruments, performance and memorabilia.

Tate Liverpool

Royal Albert Dock, Liverpool, L3 4BB

Bringing together artworks from all over the world, Tate Liverpool prides itself on staging an ever-evolving programme of unique and incredible collections.

Liverpool Cathedral

St James Mt, Liverpool, L1 7AZ

Liverpool Anglican Cathedral is Britain's biggest Cathedral and the 5th largest in Europe. Travel to the top of the tower on the 'Tower Experience' and enjoy unrivalled panoramic views from 500ft above sea level! Here visitors can see the city and way beyond, it's also one of the best places to catch a Mersey sunset.

Mersey Ferries

Pier Head, George Parade, Liverpool, L3 1DP

San Francisco has its cable cars, New York has its yellow cabs and Liverpool has its famous Mersey Ferries. See the best views of the Liverpool Waterfront on the world-famous Mersey Ferry with our 50-minute River Explorer Cruise.

Museum of Liverpool

Pier Head, Liverpool, L3 1DG

Explore Liverpool's fascinating, diverse history in this magnificent waterfront museum. Enjoy accessible and engaging exhibits showcasing Liverpool's popular culture, hop on board the overhead railway and discover social, historical and contemporary issues associated with the city region.

Liverpool Beatles Museum

23 Mathew St, Liverpool, L2 6RE

At the Liverpool Beatles Museum visitors are given exclusive access to this previously unseen collection of rare memorabilia spanning from the band's inception to Beatlemania and beyond. Items on display include, George Harrison's Futurama guitar (used on their first shows and recording sessions), Beatles drum kits, the earliest ever colour footage of the Beatles performing, personal letters, the original police log documenting the security arrangements for the Ed Sullivan Show, original seats from Shea Stadium, props from Help, Hard Day's Night and Yellow Submarine and so much more never before seen memorabilia.



The Cockcroft Institute and Science and Technology Facilities Council

Daresbury Laboratory

Sci-Tech Daresbury

Daresbury

WA4 4AD, UK

John Adams Institute for Accelerator Science Oxford University

Denys Wilkinson Building

Keble Road

Oxford OX1 3RH, UK

Imperial College London

South Kensington Campus

London SW7 2AZ, UK

Royal Holloway University of London

Egham Hill

Egham

Surrey TW20 0EX, UK

