

# LHCP Boston 2024

The 12<sup>th</sup> Large Hadron Collider Physics Annual Conference

June 3-7, 2024 @ Northeastern University  
<http://lhcp2024.cos.northeastern.edu>



## The 12<sup>th</sup> annual Large Hadron Collider Physics conference



### First Bulletin – December 2023

Dear Colleagues,

We are pleased to announce that the twelfth edition of the annual Large Hadron Collider Physics (LHCP 2024) conference will be held in person in Boston, at Northeastern University, in the period **3-7 June 2024**. The conference will be hosted by the Physics Department of Northeastern University, with crucial support from several conference partners<sup>1</sup>. The conference website can be found at [lhcp2024.cos.northeastern.edu](http://lhcp2024.cos.northeastern.edu) where up-to-date information is available.

## 1. Conference program

### 1.1. Scientific program

The LHCP conference series started in 2013 after a successful fusion of two international conferences, "Physics at Large Hadron Collider Conference" and "Hadron Collider Physics Symposium". The program of this edition will contain a **detailed review of the latest experimental and theoretical results on collider physics**, with several results using the full

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<sup>1</sup> Conference supporters and partners include European Organization for Nuclear Research (CERN), International Union of Pure and Applied Physics (IUPAP), National Science Foundation (NSF), Northeastern University Physics Department, and Northeastern University College of Science.

Run-2 dataset, a glimpse of the upgraded accelerator and detector operations in Run-3, early physics results using the Run-3 dataset, and discussions on further research directions within the high energy particle physics community, both in theory and experiment.

The main goal of the conference is to **provide intense and lively discussions between experimentalists and theorists** in such research areas as the Standard Model Physics and Beyond, the Higgs Boson Physics, Heavy Quark Physics and Heavy Ion Physics, as well as to share recent progress in the high luminosity upgrades and future collider developments.

The LHCP 2024 scientific program is organized with alternating plenary and parallel sessions for oral presentations, as well as one poster session. Oral presentations are by invitation from the conference organizers, while in case of the poster presentations there is an open call for abstracts.

## 1.2. Additional social program & events

The social program includes several additional events:

- **Welcome reception on Monday June 3<sup>rd</sup>** evening,
- **Lunch during the poster session on Tuesday June 4<sup>th</sup>,**
- **Conference banquet on Wednesday June 5<sup>th</sup>** evening,
- **Excursions (optional) on Saturday June 8<sup>th</sup>** morning.

## 2. Conference venue and services

The venue of the conference will be Northeastern University, in Boston. The Northeastern University campus is located in the heart of Boston, close to many cultural and recreational venues, hotels, and restaurants. It is located near public transportation, and it is a short ride from Boston Logan International Airport. The campus offers a large range of classrooms and auditoriums for plenary sessions, parallel sessions, and meetings of various size, with a high-level of accessibility services. Wifi connection will be available for conference participants during the whole period. More information about the Boston campus of Northeastern University, can be found at [northeastern.edu](http://northeastern.edu).

## 3. Conference fee and registration

The fees in US Dollars (USD) foreseen for the conference are as follows:

Category	Early registration (before 2 <sup>nd</sup> Apr)	Late registration (from 2 <sup>nd</sup> Apr)
Student	300	350
Standard participant	475	550

Participants must be registered and the fee must be paid before **April 2<sup>nd</sup> 2024** in order to profit from the early registration fee (otherwise their registration will be considered and priced as late registration).

The registration fee includes the welcome reception (at the [Isabella Stewart Gardner Museum](#)), the poster session lunch, the conference banquet (at the [Museum of Fine Arts](#)), coffee breaks, light breakfasts, two panel lunches, and the cost of publishing conference proceedings.

There is a possibility of **accompanying persons** paying a **150 USD** fee that will cover the welcome reception, the poster session lunch, and the conference banquet. The same deadlines apply to the registration of the accompanying persons, with a late fee of **175 USD** after April 2<sup>nd</sup> 2024.

Registration fees are refundable up to **May 10<sup>th</sup> 2024**, minus a processing fee of **50 USD**. After this date there will be no refunds. For more details including the payment procedures, please visit the website of the conference.

## 4. Call for poster abstracts

The call for poster abstracts is now open, and the closing date for submission of abstracts for poster contributions is **February 15<sup>th</sup> 2024**. Notification of the acceptance of a poster contribution will be sent by e-mail no later than **March 1<sup>st</sup> 2024**.

Besides posters from LHC collaborations, we encourage posters from theorists as well as from other experiments, including non-accelerator experiments, carrying out research relevant for LHC particle physics.

Selected abstracts will be presented and discussed in the designated poster sessions. Posters will contribute to the proceedings. **Prizes for the best posters will be awarded**. Participants wishing to present posters with results from the experimental collaborations should check the procedure for submitting an abstract with their collaboration.

## 5. Proceedings

Conference proceedings will be published in electronic form with online open access. Poster contributions will be included in the proceedings.

## 6. Travel

### 6.1. Arriving at the conference

Northeastern University is easily accessible globally by plane via Boston Logan International Airport (BOS), which serves numerous domestic and international flights.

BOS is approximately 7 miles from the Northeastern University campus. To travel to and from the airport to campus or hotels, one can take the [MBTA public transit](#) (~40min by bus/subway) or taxi/Uber/Lyft (~15-30 min by car).

The [Logan Express bus](#) also provides transportation to/from BOS airport. The Back Bay stop of the Logan Express is convenient for those staying at downtown hotels.

## 6.2. Visa information

Visa requirement for the entry to the United States by citizens of other countries can be found at the [US Department of State](#). Please check if you need an entrance visa, and if you need one, make sure to apply as early as possible. In case you do need an entrance visa, please inform the local organizers who will provide an invitation letter for you.

## 6.3. Accommodation

There are many hotels near the Northeastern University campus. A map of nearby hotels is available on the web site, as well as information about specific hotel blocks. Because Northeastern University is in Boston, and near public transportation, many hotel options in the Boston, Brookline, and Cambridge area might work well. In addition, there are also many AirBnBs in the vicinity of campus. We strongly encourage conference participants to book accommodation as soon as possible

On-campus accommodation is also made available for booking from the registration site, at the following rates (per night):

- Double-2 twin beds w/ shared bathroom 69.00 USD
- Semi Private Single-1 twin bed w/ shared bathroom 94.00 USD
- Fully Private Single -1 twin bed, private bathroom 135.00 USD

## 7. Early Career Researcher Grants

The LHCP 2024 conference will provide reimbursement grants to a limited number of Early Career Researchers (ECR), particularly Ph.D. students, to promote their participation to the conference. The grant will reimburse the registration fee, and students are highly encouraged to present a poster or a talk at the conference to qualify for this support.

In order to apply for the ECR grant, researchers should register for the conference, and send an email to [lhcp2024-loc@cern.ch](mailto:lhcp2024-loc@cern.ch) describing their motivation for the grant application, and providing their CV and letter of reference from their supervisor(s) supporting their application no later than **March 1<sup>th</sup> 2024**. Decision on the winners of the ECR grants will be made by the conference organizers no later than **March 15<sup>st</sup> 2024**.

## 8. Childcare

We welcome children at LHCP 2024. The conference website will provide information related to childcare providers and family-friendly activities. The Northeastern University campus has several private lactation spaces available for families. Participants with accompanying children will also be able to apply for support grants, for their childcare needs. For more information about support, the childcare services and family-friendly activities, please get in touch with us via [lhcp2024-loc@cern.ch](mailto:lhcp2024-loc@cern.ch) or follow the information provided at the indico site.

## 9. Important dates

- **Early registration & payment deadline.....2 April 2024**
- Poster abstract submission deadline.....15 February 2024
- Poster acceptance notification no later than..... 1 March 2024
- ECR grants application deadline..... 1 March 2024
- Grant acceptance notification notification.....15 March 2024
- Latest payment reimbursement.....10 May 2024
- Conference dates.....3-7 June 2024

## 10. Contacts

Please, do not hesitate to contact us at [lhcp2024-loc@cern.ch](mailto:lhcp2024-loc@cern.ch) for any additional information and support you may need to prepare yourself for attending LHCP 2024. Follow us on Twitter/X at [@LHCPhysics](https://twitter.com/LHCPhysics). We are looking forward to welcoming you to Boston!

Federico Antinori, Sarah Demers (International chairs)  
Emanuela Barberis, Toyoko Orimoto (Local chairs)  
Shahram Rahatlou (International Advisory Committee chair)  
Dave Charlton (International Advisory Committee deputy chair)  
Florencia Canelli, Pamela Ferrari (Program Committee chairs)  
Aram Apyan, Eluned Smith (Scientific Secretaries)