

Welcome & Introduction to the Workshop

**WELCOME
to All Participants !**

*Joint ECFA-NuPECC-APPEC Workshop
“Synergies between the EIC and the LHC”
DESY, Hamburg, December 14-15, 2023*

Initiative Coordinators:

Daniël Boer (Univ. Groningen), Pasquale di Nezza (INFN-LNF & CERN),
Maria Vittoria Garzelli (Universitaet Hamburg)

Local Organizing Committee:

Markus Diehl (DESY-TH), Isabell Melzer Pellmann (DESY-EXP),
Achim Geiser (DESY-EXP), Sven-Olaf Moch (Universitaet Hamburg)

Workshop roots

2022: **Expression of Interest** for a Joint Activity focused on understanding and strengthening the synergies between the Electron Ion Collider and the Large Hadron Collider, with the involvement of three communities (particle, nuclear and astroparticle physics, represented by ECFA, NuPECC and APPEC, respectively).

Available at:

<https://indico.ph.tum.de/event/7004/>

~ 129 scientists, various of whom are present here today, endorsed it. Still open for signatures, in the case you wish to endorse it.

June 2022: **kick-off meeting** “Synergies between the EIC and the LHC”, took place for two days at CERN:

https://indico.ph.tum.de/event/7014

Present Workshop

Follow up of the previous one, with the intention of bringing out new/different aspects of the EIC-LHC synergy in theory, phenomenology and experiment.

Topics of this edition include, but are not restricted to:

- **EIC and LHC synergies in physics:**
 - **nucleon and nuclear structure**
 - **forward physics, diffractive processes**
 - **small x**
 - **exclusive processes**
 - **fragmentation and jets**
 - **event generators, computing and ML**
- **Connections with cosmic-ray physics**
- **EIC and LHC detectors**
- **Complementary projects**

Workshop Program: talks

<https://indico.desy.de/event/41404>

- 22 Plenary Talks in the Auditorium
- 16 Parallel Talks in 4 parallel sessions
in the Auditorium and Seminar Room 2 of building 2a

Each speaker is asked to **leave at least 5 minutes** for questions and discussion

In case of issues uploading your talk on the DESY indico webpage, please send **the slides of your talk in pdf format at least 3 hours before your presentation**

Pasquale.DiNezza@Inf.infn.it

who will post them in the indico.

Alternatively, you can upload **your talk on an USB-stick** and approach one of the **Workshop helpers** (Giulia Marinelli, Oskar Grocholski and Mrigankamauli Chakraborty), who will upload it on the central computer for presentation.

Workshop: Map of DESY Locations

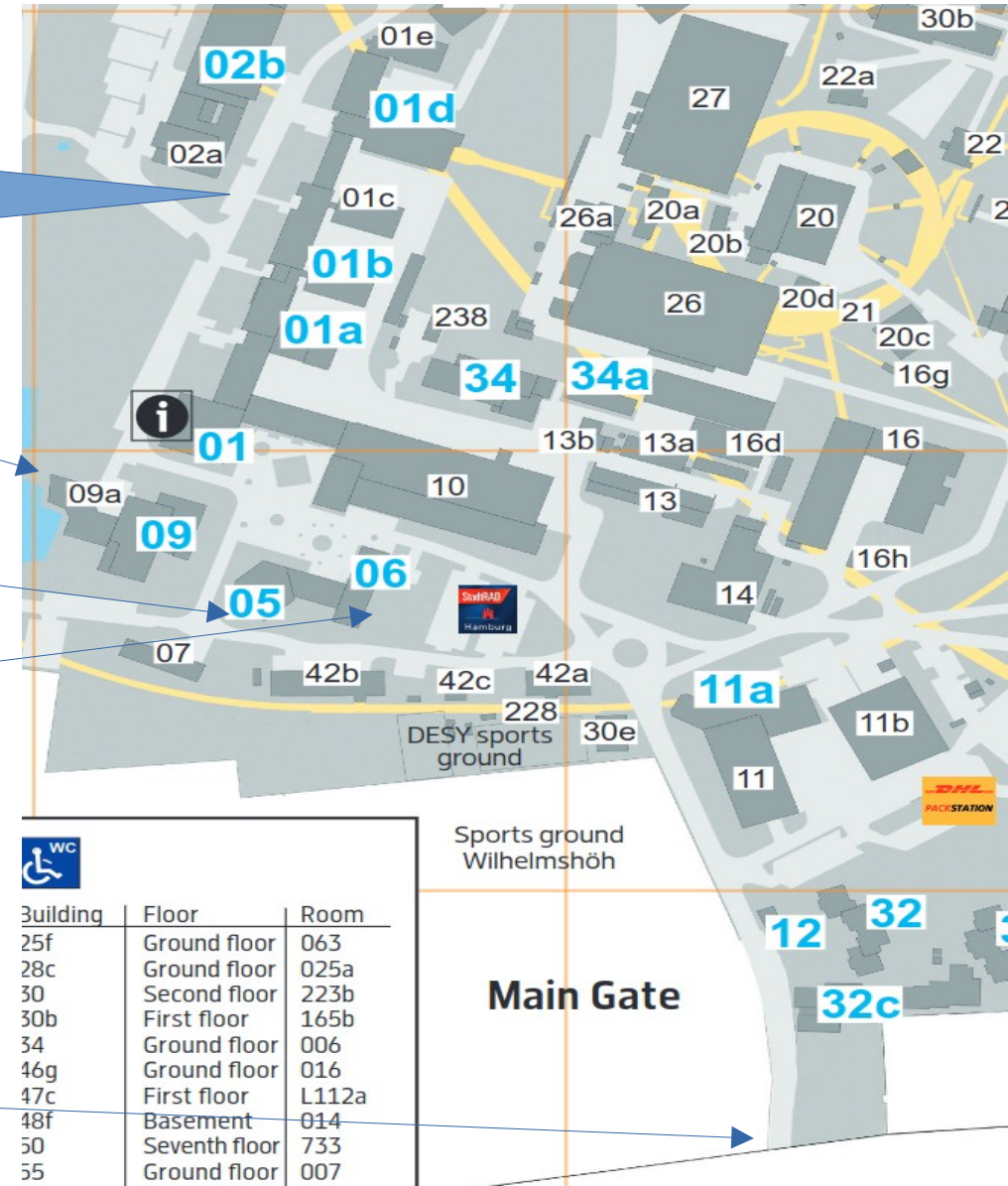
Building 2a (parallel sessions)

Building 09a (cantine extension and DESY bistrot)

Building 5: Auditorium (plenary and parallel sessions)

Building 6: some administration
(including hostel reception)

DESY main entrance (Notkestrasse 85)



Workshop Program: recreation

- **group photo:** this morning during the first coffee-break, in front of the Auditorium
- **coffee breaks:** one in the morning / one in the afternoon
in the Foyer of the Auditorium
- **lunches:** not included, it is possible to use the DESY Canteen Extension, with entrance behind the Cantine itself (building 9, a few steps from the Auditorium).
Lunch interval on thursday: 13.00 – 14.15
Lunch interval on friday: 13.20 – 14.30
- **breakfasts:** not included, it is possible to use the DESY Canteen Extension, or bakeries nearby DESY (Trabrennbahn Bahrenfeld, or Osdorfer Weg).
- **social dinner:** this evening, at 20.15 at the Hala-Lounge in the Grossflottbeker Tennis, Hockey and Golf Club (Otto-Ernst-Strasse 32)

Workshop Program: social dinner

Persons willing to **reach the restaurant by foot** from DESY can spontaneously join the local Ph.D. student **Bakar Chargeishvili** at the DESY main entrance at 7.40 pm, for a **walk of 30-35 minutes**.

There are still some free places at the restaurant. If you have registered regularly for the Workshop, you can still participate to the social dinner, even if you initially did not plan to do so. In that case, please inform us.

The screenshot shows a Google Maps interface with the following elements:

- Search Bar:** Origin: Notkestraße 85, 22607 Hamburg; Destination: Hala Lounge im GTHGC, C/O GTHGC, Ott...
- Transportation Modes:** Best, 8 min (car), 23 min (public transport), 29 min (walking), 7 min (bicycle), 7 min (airplane).
- Route Options Table:**

Route Description	Time	Distance
via Notkestraße	29 min	2.2 km
via Groß Flottbeker Str.	29 min	2.2 km
via Notkestraße and Seestraße	32 min	2.3 km
- Map:** A map of the Hamburg area showing a blue walking path from Notkestraße 85 to Hala Lounge im GTHGC. The path is marked with a walking icon and a callout box indicating 29 min and 2.2 km.

WiFi options for externals on DESY Campus

- **EduRoam** (with username and password from your Institution)
- **Science-Hotspot** (non protected)

Workshop secretaries

- Cristina Guerrero (cristina.guerrero@desy.de)
- Elizabeth Monteiro Duarte (elizabeth.monteiro.duarte@desy.de)

If you do not find them at the registration desk in the Foyer or during the coffee-breaks, you can still contact them by email.

In particular Elizabeth is responsible for the invoices for registration fees.

IMPORTANT: DESY-hostel invoices are not released by them,
but by the DESY-hostel itself !

Workshop Sponsors and Supporters



We are grateful to all of them for material and/or financial support!

Enjoy the Workshop!