



5th ALICE Upgrade Week in Kraków

3rd Circular



Welcome to the 5th ALICE Upgrade Week 2024 to be held in Kraków, Poland

The ALICE Collaboration gathers at Upgrade Weeks to discuss the plans and preparations for the detector upgrades for Run 4 (FoCal and ITS3) and the new apparatus ALICE 3 proposed for Runs 5 and 6

Dates

7 Oct – 11 Oct 2024

Venue

Institute of Nuclear Physics Polish Academy of Sciences
ul. Radzikowskiego 152, 31-342 Kraków, PL

Conference webpage: <https://indico.cern.ch/event/1415726/>

Registration starts: 6 June 2024 – 12:00 (CEST)

Registration ends: **30 September 2024 – 18:00 (CEST)**

Contact information:

email: auw2024@ifj.edu.pl tel.: +48 12 662 8202

ALICE 2024 UPGRADE WEEK 5th ALICE UPGRADE WEEK in Kraków

7-11 Oct 2024 Institute of Nuclear Physics Polish Academy of Sciences (IFJ PAN), Kraków
Europe/Warsaw timezone

Overview
Timetable
Registration
Payments
Social Dinner
Venue and travel information
Hotel suggestions
Kraków and its surroundings
Contact Information

5th ALICE Upgrade Week in Kraków

Selected topics:

- New ideas for the measurements with the upgraded ALICE
- ALICE Run-4 upgrades
 - Inner Tracking System (ITS 3)
 - Forward Calorimeter (FoCal)
- ALICE 3 - future detector for Run-5 and Run-6

Institute of Nuclear Physics Polish Academy of Sciences (IFJ PAN), Kraków
ul. Radzikowskiego 152
31-342 Kraków, Poland

Starts 7 Oct 2024, 14:00
Ends 11 Oct 2024, 13:00
Europe/Warsaw

Local Organising Committee:

Marek Kowalski, Sándor Lökös, Adam Matyja, Jacek Otwinowski,
Andrzej Rybicki, Olga Sułek-Zarosińska, Iwona Sputowska, Sahil Upadhyaya

Time Table

MONDAY 7 OCTOBER

13:00 – 14:00 **Registration and Welcome Coffee** ⌚ 1h

14:00 – 14:30 **Plenary session: Opening**

Convener: Marek Kowalski (Polish Academy of Sciences (PL))

14:00 **Welcome by Institute Directors** ⌚ 30m

14:30 – 16:30 **Plenary session: Introduction and Invited Speakers**

Convener: Jacek Tomasz Otwinowski (Institute of Nuclear Physics Polish Academy of Sciences (PL))

14:30 **ALICE upgrades** ⌚ 20m

Speakers: Andrea Dainese (INFN - Padova (IT)), Antonello Di Mauro (CERN)

14:50 **Title TBD (charm statistical hadronisation, fluctuations)** ⌚ 30m

Speaker: Krzysztof Redlich (National Centre for Nuclear Research (PL))

15:20 **Title TBD (forward physics and jets)** ⌚ 30m

Speaker: Krzysztof Marek Kutak (Polish Academy of Sciences (PL))

15:50 **Title TBD (forward physics, UPCs, diffraction)** ⌚ 30m

Speaker: Antoni Szczurek

16:30 – 17:00 **Coffee break** ⌚ 30m

17:00 – 19:20 **Plenary session: Simulation and performance**

Convener: Matteo Concas (CERN)

17:00 **Update on on-the-fly simulation (to be confirmed)** ⌚ 20m

17:20 **RICH simulation** ⌚ 20m

Speaker: Nicola Nicassio (Universita e INFN, Bari (IT))

17:40 **FCT simulation** ⌚ 20m

Speaker: Cas Van Veen (Heidelberg University (DE))

18:00 **MID simulation (to be confirmed)** ⌚ 20m

18:20 **TOF matching and PID (to be confirmed)** ⌚ 20m

18:40 **Outer Tracker studies (to be confirmed)** ⌚ 20m

19:00 **Inner Tracker Studies (to be confirmed)** ⌚ 20m

09:00 → 10:05 **Plenary session: LHC projections, colliding species**

- 09:00

Update on LHC heavy-ion performance in Runs 5-6 ⌚ 25m
Speaker: Elias Walter Waagaard (EPFL - Ecole Polytechnique Federale Lausanne (CH))
- 09:35

First A-dependent projections of ALICE 3 HF performance ⌚ 20m
Speaker: Giuseppe Bruno (Universita e INFN, Bari (IT))

10:05 → 10:35 **Coffee break** ⌚ 30m

10:35 → 11:25 **Plenary session: Magnet studies**

- 10:35

Superconducting Magnet project status ⌚ 20m
Speaker: Arturo Tauro (CERN)
- 10:55

Superconducting Magnet design and options ⌚ 25m

11:25 → 13:00 **Plenary session: Detector scoping options**

- 11:25

Scoping options and physics performance ⌚ 30m
Speaker: Andrea Dainese (INFN - Padova (IT))
- 11:55

Costs, personnel requirements and resources ⌚ 30m
Speakers: Andrea Dainese (INFN - Padova (IT)), Antonello Di Mauro (CERN)
- 12:25

Discussion ⌚ 30m

13:00 → 14:30 **Lunch break** ⌚ 1h 30m

14:30 → 18:00 **FoCal - Parallel Session**

Conveners: Constantinos Loizides (ORNL), Prof. Ian Gardner Bearden (University of Copenhagen (DK)), Tatsuya Chujo (University of Tsukuba (JP))

14:30 → 18:00 **ITS3 - Parallel Session**

Conveners: Alex Kluge (CERN), Magnus Mager (CERN)

14:30 → 18:00 **TOF/RICH - Parallel Session**

Conveners: Angelo Rivetti (INFN - National Institute for Nuclear Physics), Prof. Giacomo Volpe (Universita e INFN, Bari (IT)), Manuel Colocci (University and INFN, Bologna (IT)), Stefania Bufalino (Politecnico di Torino (IT))

19:00 → 22:00 **Social Dinner** ⌚ 3h

09:00 → 13:00 **Plenary session: Sensor and module R&D, test beams**

09:00 **Tracker sensor development** ⌚ 25m

09:45 **OT module design and assembly** ⌚ 30m

10:30 **Coffee break** ⌚ 30m

11:00 **TOF sensors R&D** ⌚ 25m

11:30 **RICH sensor R&D** ⌚ 25m

12:00 **RICH module design** ⌚ 25m

12:30 **MID test beam preparation** ⌚ 25m

13:00 → 14:30 **Lunch break** ⌚ 1h 30m

14:30 → 18:30 **FD - Parallel session**

Convener: Jacek Tomasz Otwinowski (Institute of Nuclear Physics Polish Academy of Sciences (PL))

14:30 → 18:30 **IT+OT+FCT - Parallel session**

Conveners: Antonin Maire (IPHC - Strasbourg (CNRS-In2p3/Unistra)), Felix Reidt (CERN), Giacomo Contin (Universita e INFN Trieste (IT)), Henner Buesching (Goethe University Frankfurt (DE)), Klaus Reygers (Heidelberg University (DE)), Laura Fabbietti (Technische Universitaet Muenchen (DE))

14:30 **IT: Pixel simulation studies (tbc)** ⌚ 20m

Speaker: Mariia Selina (Nikhef National institute for subatomic physics (NL))

14:55 **IT: Vertex Detector outgassing studies** ⌚ 20m

Speaker: Triloki Triloki (Universita e INFN, Bari (IT))

15:20 **IT: Placeholder (tbc)** ⌚ 20m

14:30 → 18:30 **MID - Parallel session**

Convener: Antonio Ortiz Velasquez (Universidad Nacional Autonoma (MX))

14:30 → 18:30 **TOF/RICH - Parallel Session**

Conveners: Angelo Rivetti (INFN - National Institute for Nuclear Physics), Prof. Giacomo Volpe (Universita e INFN, Bari (IT)), Manuel Colocci (University and INFN, Bologna (IT)), Stefania Bufalino (Politecnico di Torino (IT))

09:00 → 10:30 **Plenary session: Electronics, readout, processing**

Conveners: Alex Kluge (CERN), Peter Hristov (CERN), Vasco Barroso (CERN)

09:00 **RICH Readout** ⌚ 20m

09:25 **MID Readout** ⌚ 20m

09:50 **FIT FEE upgrade for the future ALICE 3 FD detectors** ⌚ 20m

10:15 **Data processing** ⌚ 15m

10:30 → 11:00 **Coffee break** ⌚ 30m

11:00 → 13:00 **IFJ PAN visit** ⌚ 2h

13:00 → 14:30 **Lunch break** ⌚ 1h 30m

14:30 → 18:00 **Plenary session: Mechanics and cooling**

14:30 **FOCAL mechanics and cooling** ⌚ 20m

14:55 **Iris mechanics and integration** ⌚ 20m

15:20 **OT mechanics** ⌚ 20m

15:45 **OT cooling** ⌚ 20m

16:10 **RICH mechanics** ⌚ 15m

16:30 **RICH cooling** ⌚ 15m

16:50 **TOF mechanics/cooling (TBC)** ⌚ 15m

09:00 → 13:30 **Plenary session**

- 09:00** | **ITS3 summary and outlook** ⌚ 25m
Speakers: Alex Kluge (CERN), Magnus Mager (CERN)
- 09:30** | **FoCal summary and outlook** ⌚ 25m
- 10:00** | **ALICE 3 summaries and outlook** ⌚ 30m
- 10:30** | **Coffee break** ⌚ 30m
- 11:00** | **Discussion and closing remarks** ⌚ 1h
- 12:00** | **Farewell lunch** ⌚ 1h 30m



Social Dinner

Tuesday, 8th October 2024

Venue

Stara Zajezdnia Kraków by DeSilva
Świętego Wawrzyńca 12, 31-060 Kraków

Restaurant website: [Click here!](#)

Location: [Google maps](#)