

Kraków-Bonn Internship 2025

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Welcome

- Welcome to the 1st pilot **Kraków-Bonn Internship 2025**
- Kraków: 21 July - 1 August
- Bonn: 8-19 September

- Indico agenda: <https://indico.fis.agh.edu.pl/event/362/>
- Organisers: **Bonn Kraków Laboratory for Heavy Ion Physics**
 - Iwona Grabowska-Bołd (Kraków), Patrycja Potępa (Kraków), Matthias Schott (Bonn)
- Participants: 2 (Bonn) + 2 (Kraków) + 2 (Kraków)
- Sponsors: AGH University and University of Bonn





Our programme

- Monday-Friday: **9am - 4pm** in room **104 D-11**
 - **13:00** lunch break ~30 min
 - Today, we propose to go out together to one of local canteens/restaurants
 - For remaining days, you can also use a kitchen in room 105 D-11, there is a fridge, a microwave oven, etc
 - **15:45-16:00** “My highlight of the day”: Each team/student is supposed to select one plot/item, upload to indico and discuss with us
Name your contribution: <YourName>_SomeDescription
- For coffee breaks:
 - Use room 105 D-11, you can make tea or coffee any time



Communications

- **Mattermost channel:**
https://mattermost.web.cern.ch/signup_user_complete/?id=bys1xmbitbn79j9t5xoaa146wa&md=link&sbr=su
- Please subscribe and in case of issues use it, others please respond
- Where to find us:
 - Iwona: room 115 D-11 1st floor
 - Patrycja: room 8 D-11 ground floor



Projects



- Participants will be working on projects related to the ATLAS experiment
- Common topic: production of **top quarks** in **lead-lead collisions** at **5.36 TeV** in new data recorded in November 2024
 - Pioneering work nobody has looked at this data set yet
 - Topic 1: Mathias and Mateusz: Optimisation of tracking
 - Topic 2: Moritz and Kacper: Optimisation of event selection
 - Topic 3: Emilia and Paulina: Optimisation of jets

Example top-quark event candidate

