

# 2024 Polish Particle and Nuclear Theory Summit



11 September 2024

## welcome & logistics

## Wifi networks:

- eduroam + ifj
- ifj\_guest:



- venue ✓
- coffee ✓
- breakfast/lunch ✓
- coffee ✓
- Zabka, lody, etc ✓
- bus/train ✓





## Polish Particle and Nuclear Theory Summit (2PiNTS) 2024

Sep 11 – 13, 2024  
Institute for Nuclear Physics – Polish Academy of Sciences (IFJ PAN)  
Europe/Warsaw timezone



Overview

Registration

Timetable

Local Information

↳ Transportation

↳ Lodging

↳ Dining near the IFJ

↳ Social Activities

Call for Abstracts [Early Career Session only]

Contribution List

Participant List

Code of Conduct

GDPR information

Contact

✉ [nz42.activities@ifj.edu.pl](mailto:nz42.activities@ifj.edu.pl)

### Transportation

Krakow has great and cheap public transportation, including trains, trams, and buses that span the airport (KRK), the institute (Bronowice station), and the city center (Główny).

- **Bus/tram/train:**

You can buy transportation passes (20 min for 4 pln , 60 min for 6 pln) for buses/trams from many bus/tram stops, on newer trams/buses, or with mobile banking apps. **Paper and electronic tickets must be validated on the bus/tram.** Electronic tickets require a code (XX-000) that can be found on the vehicle.

Train tickets can be purchased from kiosks on train platforms and on newer trains.

**For trains, trams, and buses, check Google maps (it is reliable in Krakow!)**

- The main train station of Krakow is Krakow Główny:

<https://maps.app.goo.gl/ZwmhYpsBr8zGsoVK6>

- Our local airport is JPll Krakow-Balice (KRK):

<https://maps.app.goo.gl/ZKmp3PBLnTNDembe8>

- Parking is available at the workshop hotel (QHotel – Bronowice) at a cost of 50 PLN / day / car (The IFJ will not reimburse/cover parking costs.)

Eljasza Radzikowskiego 142, 31-342 Krakow  
<https://maps.app.goo.gl/X9MKB2kQKzbAZeCH9>

visit the indico page! [indico.ifj.edu.pl/e/2pints2024](https://indico.ifj.edu.pl/e/2pints2024)

**informal social activities**



# a full schedule

## By the numbers:

- 45 participants
- 25 talks
- 8+2 sessions
- 5 coffee breaks

now is a great time to upload your talk

Wed 11/09 Thu 12/09 Fri 13/09 All days

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Organisation Talks

Organisation: Registration (Organisation)

12:30-13:15  
Organisation: Welcome (Organisation)  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

13:18-13:30  
Hoffnung LU: The time-resolving view of TMD will factors  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

14:00-14:15  
Nuclei Rehearsal - Comparison of in-medium interaction and gluon saturation effects on jet production  
Ewa Juchacz

14:30-15:00  
Tensio model - BIC and the Doldner: exclusive production of chi\_1 charmonia  
Tensio Doldner  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

15:30-15:38  
Coffee & Cookies  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

16:00-16:15  
Subatomic Signets - Particle and nuclear Theory activities at the J...  
Mikolaj Sapsis  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

16:30-16:45  
Tensio Mesonhadronization - Conditions in quarkonium field theories  
Tensio Doldner  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

Wed 11/09 Thu 12/09 Fri 13/09 All days

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Organisation Talks

09:00-09:30  
Public Exclusionary - TSA  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

09:30-09:38  
Empirical constraints: Disentangling time factors of the gluon lattice QCD jets: the tensor dominance  
Ewa Juchacz

10:00-10:30  
Coffee & Cookies  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

10:30-11:00  
Andrew Dondos - TSA  
Andrew Dondos

11:00-11:00  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

11:00-11:30  
Recycled Hologics - TSA  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

12:00-12:30  
Lunch

12:30-13:00  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

13:00-13:30  
Theoretical reconstruction of the gluon gauge theories coupled to matter  
Dmitry Pletzer  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

13:30-14:00  
Pressing in Central Dark Sectors  
Dr. Ben Elias-Ladouceur  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

14:00-14:30  
Dark matter mixing schemes with correlations of neutron oscillation data  
Dr. Szymon Duszyński  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

14:30-15:00  
Searching for Dark Matter production for LDMF coefficients from quantum gravity  
Mikolaj Sapsis  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

15:00-15:30  
Dark Sectors in the late-Universe model under a variety of subdominances  
Dr. Szymon Duszyński  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

15:30-15:38  
Coffee & Cookies  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

16:00-16:30  
Recycled Hologics - Deep learning in modeling hyper-nuclear scattering  
Ewa Juchacz

16:30-16:30  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

16:30-16:30  
Hologic Cosmology - Small-e resolution and the proton spin puzzle  
Thomas Coughlin

Wed 11/09 Thu 12/09 Fri 13/09 All days

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Organisation Talks

09:00-10:00  
Area 100p (ICN) - Status and outlook of ICN in 2023 and beyond  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

10:00-10:30  
Coffee & Cookies  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

10:30-11:00  
Revised Dark - TSA  
Revised Dark

11:00-11:30  
Michael Spitzner - TSA  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

12:00-12:30  
Lunch

12:30-13:00  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

13:00-13:30  
Strong production and dissipation in spin hydrodynamics  
David Castel  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

13:30-14:00  
Phenomenological transition form factor for tensor meson quarkonia  
Ewa Juchacz

14:00-14:30  
3TMD approach to the production of di-hadrons jets in DSE  
Mikolaj Sapsis  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

14:30-14:30  
Isolated gluon boson production in pp collisions at forward rapidities  
Tensio Doldner

14:30-14:30  
Coffee & Cookies  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

14:30-15:00  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

15:00-15:30  
Alice CoRoCo - TSA  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

15:30-16:00  
David Alvarez - QCD jet diagrams with multi-messenger observations of compact stars  
David Alvarez Castel  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

16:00-16:30  
Organisation: Closing remarks (Organisation)  
Talks, Institute for Nuclear Physics - Polish Academy of Sciences (IP PAN)

# a special talk

## Timetable

< Wed 11/09 Thu 12/09 **Fri 13/09** All days >

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Session legend

● ECR ● Organisation ● Talks X

09:00	<b>Anna Koteja (NCN) - Status and outlook of NCN in 2024 and beyond</b> <i>Aula, Institute for Nuclear Physics -- Polish Academy of Sciences (IFJ PAN)</i> 09:00 - 10:00
10:00	<b>Coffee &amp; Cookies</b> <i>Aula, Institute for Nuclear Physics -- Polish Academy of Sciences (IFJ PAN)</i> 10:00 - 10:30

come with questions!



many thanks!

a team effort!



 NARODOWE  
CENTRUM  
NAUKI

  
POLISH ACADEMY OF SCIENCES



+ ...



**show time!**

