



UNIVERSITÄT
HEIDELBERG
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SEIT 1386



ExtreMe Matter Institute Workshop Light-Ion Collisions 2026

September 21-25, 2026 Heidelberg University, Germany

$p-p$

$p-O$

$O-O$

$Ne-Ne$

$Pb-Pb$

Welcome!

Organizational team

Organizers

- Reyes Alemany Fernandez (CERN)
- Federica Capellino (GSI)
- Andrea Dubla (GSI)
- Giuliano Giacalone (CERN)
- Aleksas Mazeliauskas (Heidelberg U.)
- Wilke van der Schee (CERN/Utrecht)
- Alexander Tichai (TU Darmstadt)

Local support

- Tina Kuka
- Rebecca Grimm
- Lijana Diestel
- Delvin Demke

Contact: lightions2026@thphys.uni-heidelberg.de

Past light-ion workshops

2021



cern.ch/OppOatLHC

2024



cern.ch/lightions

2025

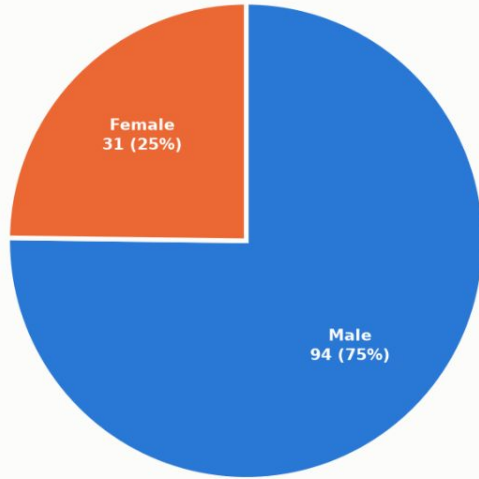


cern.ch/lightions2025

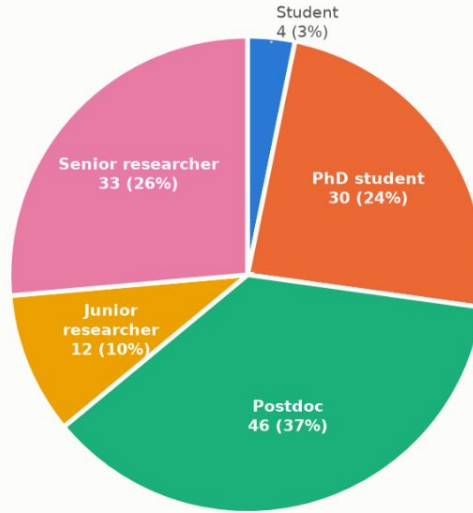
Workshop participants

~120 participants ~70 speakers ~80 international participants

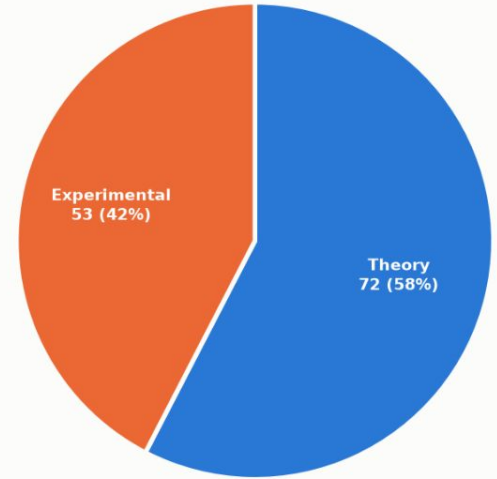
Gender



Position



Research focus



Thank you for financial support



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for participants of an EMMI workshop: *"We thank the ExtreMe Matter Institute EMMI at GSI, Darmstadt, for support in the framework of an EMMI Workshop during which this work has been initiated."*

Code of conduct

<https://indico.gsi.de/event/25022/page/2612-emmi-code-of-conduct>

- **Core Policy:** All participants must behave professionally and respectfully; discrimination, harassment, and retaliation are not tolerated.
- **Prohibited Conduct:** No discrimination or harassment based on age, race, ethnicity, religion, sexual orientation, gender identity, nationality, political views, ability, appearance, education, or other protected characteristics.
- **Examples of Harassment:** Disrupting talks, intimidating behavior/language, unwelcome jokes/comments, unwanted touching, offensive images, unauthorized photography, stalking.

Code of conduct

If you encounter any problem, or face any discomfort, come to us!



Federica Capellino



Rossana Facen

Internet connection

eduroam

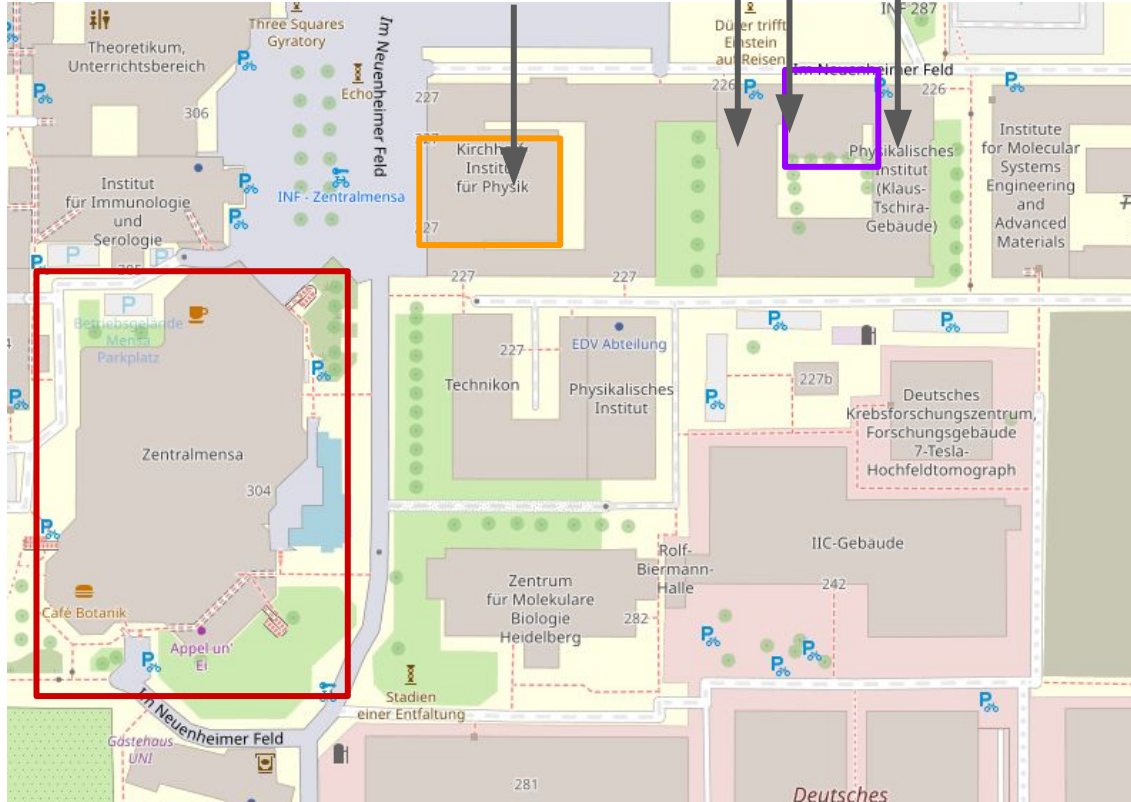


Heidelberg4you



Coffee break & Lunch

Toilets



Golden Box

- coffee breaks
~10:30-11:00
~14:45-15:15
- reception
Monday, 18:00-20:00

KIP H2: talks (09:00-18:00)

University cafferteria (Mensa): lunches (12:00-13:30)

Lunches at university cafeteria (Mensa): 12:30-14:00

- **5 lunch vouchers inside your badge**
- Do not leave your badge and vouchers at hotel!
- Give one voucher per lunch to the cashier

Lunch voucher includes

- buffet lunch
(many vegan/vegetarian options)
- one drink
- dessert

Do not lose your lunch vouchers!

Payment by cash/card at Mensa is not possible!

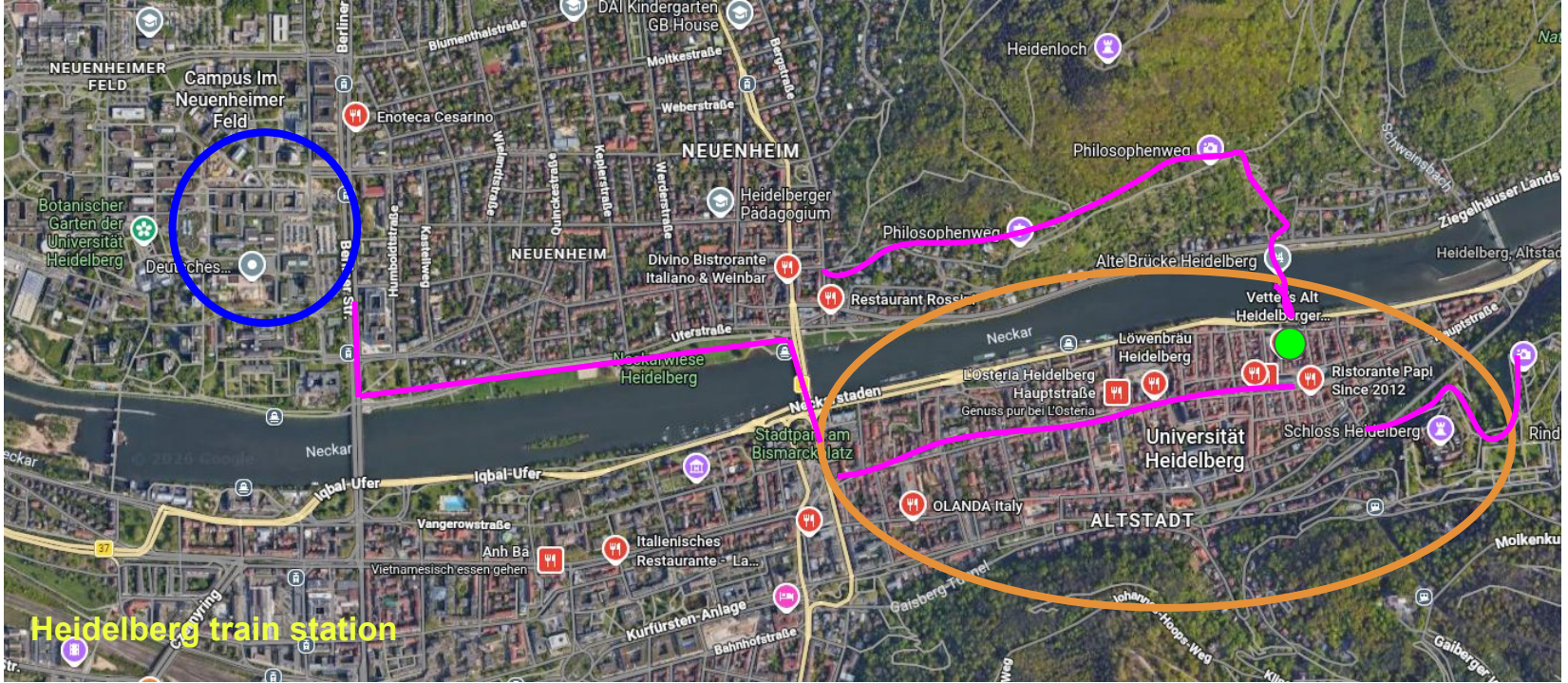
Check the allergens cards

Allergene / allergens		& Inhaltsstoffe / ingredients
GIWe	Weizen/wheat	1 mit Farbstoff/colouring
GIGe	Gerste/barley	2 mit Konservierungsstoff/preservatives
GIHa	Hafer/oats	3 mit Antioxidationsmittel/anti-oxidiser
GIRO	Roggen/rye	4 mit Geschmacksverstärker/flavour enhancers
GIDi	Dinkel/spelt	5 geschwefelt/sulfured
GIKa	Kamut/Khorasan	6 geschwärzt/blackened
		7 gewachst/waxed
Kr	Krebstiere/shellfishes	8 mit Süßungsmittel/sweetener
Ei	Ei/eggs	9 mit Phosphat/phosphate
Fi	Fisch/fish	
Er	Erdnuss/peanut	10 mit Farbstoff/colouring: kann Aktivität und Aufmerksamkeit bei Kindern beeinflussen/may affect activity of children
So	Soja/soy	11 mit Süßungsmittel/sweetener: enthält eine Phenylalaninquelle / phenylalanine
MI	Milch/Milchprodukte / milk/milk products	12 mit Süßungsmittel/sweetener: kann bei übermäßigem Verzehr abführend wirken/can be laxative
NuMa	Mandeln/almonds	13 Schweinefleisch/pork
NuWa	Walnüsse/walnut	14 Geflügelfleisch/poultry
NuHa	Haselnüsse/hazelnuts	15 Rindfleisch/beef
NuKa	Kaschu/cashew	16 Wild /game
NuPe	Pecannüsse/pecans	21 mit Coffein/caffeine
NuPa	Paranüsse/brazil nuts	22 mit Chinin/quinine
NuPi	Pistazien/pistachios	23 mit Taurin/taurine
NuMd	Macadamia/macadamia	25 kakaohaltige Fettglasur/cocoa-based fat glaze
Se	Sellerie/celery	26 mit Alkohol/alcohol
Sn	Senf/mustard	62 mit Nitritpökelsalz/nitrite
Sa	Sesam/sesame	
Sf	Schwefeldioxid und Sulfite/sulfur dioxid & sulfites	
Lu	Lupinen/lupine	
We	Weichtiere/molluscs	

Heidelberg old town

we are here

workshop dinner (Thursday)



nice walking routes

Old Town: sightseeing, restaurants

Scientific programme

Overviews Collective flow Hard probes & flavour Nuclear structure Discussions Future programs				
Mon 21 Sep	Tue 22 Sep	Wed 23 Sep	Thu 24 Sep	Fri 25 Sep
08:45–10:15 Overviews: 1/3	09:00–10:25 Hard Probes: 1/3	09:00–10:30 Nuclear Theory: 1/2	09:00–9:55 Neutron Skin, EOS	09:00–10:30 Future programs and facilities
10:45–12:00 Overviews: 2/3	11:00–12:00 Hard Probes: 2/3	11:00–12:00 Collective Flow: 2/2	9:55–12:00 Initial State Physics	11:00–13:00 Discussion: Future of light ions at the LHC
13:30–14:45 Overviews: 3/3	13:30–14:40 Heavy Flavour	13:30–14:40 Nuclear Theory: 2/2	13:30–14:55 Pre-equilibrium: Thermalization	
15:15–16:15 Collective Flow: 1/2 + Femtoscopy	15:10–16:10 Hard Probes: 3/3	15:10–16:30 Ov $\beta\beta$ Decay	15:25–16:25 Pre-equilibrium: Cold Atoms	
16:45–18:00 Discussion: Centrality determination	16:40–17:40 Discussion: System-size dependence	17:00–18:00 Discussion: Nuclear structure in HIC	16:55–18:05 Polarization	

Please upload slides (pdf) on indico the day before

Community feedback

Two-question questionnaire:

https://docs.google.com/forms/d/e/1FAIpQLSe1iuzf0zC8Gsvq2z4WWZMrCpfsDfAnAeNkWZ7NrB_YwQaB4w/viewform?usp=header

- **What did you learn from the light-ion collision data that you did not know, or believed differently, before?**
- **What would you still like to learn from light-ion collisions?**

Please respond by Thursday
You can answer more than once



Workshop dinner in the Old Town

Vetter's Brauhaus

Steingasse 9, 69117

Heidelberg-Altstadt

(next to the old bridge)

Arrival time: 20:00-20:15, Thu

Bring your badge and dinner ticket (inside your badge)

The Brewer's Feast

- Beer, house wine, and soft drinks included.
- **Wooden board of starters** (Spiral-cut radish, sausage, Obazda, lard, butter, bread & pretzels)
- **Shared meat skillet with fried potatoes** (pork knuckle, schnitzel, Nuremberg bratwurst, meatloaf & chicken wings, served with sauerkraut and dark beer sauce)
- **Vegetarian:** Cheese Spätzle or a fresh salad plate **Vegan:** Vegetable lasagne
- **Dessert:** Warm apple strudel with vanilla sauce or Bavarian cream with fruit purée

For allergen-free alternatives ask restaurant staff



Workshop photo at 10:50 on audiMAX stairs

