

Belle II Germany FSP Meeting 2025

Sally, Markus, Florian, Jochen
September 8th, 2025

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Welcome to Bonn



6.9.2025

Conference Venue(s)

ROT

Käthe-Kümmel-Str. 1

Monday & Tuesday



Presentation Rooms:

- 0.056 (this room)
- U1.059
- 1.027

Coffee breaks:

- 0.055 (foyer just outside)

Quiet Rooms:

- 0.031
- U1.060

FTD

Kreuzbergweg 24

Wednesday



Presentation Rooms:

- 0.052

Coffee break right outside in foyer

Thanks a lot to FSP office for helping to fund the coffee break

Agenda

Monday

14:00	Welcome <i>0.056, ROT building</i>	14:00 - 14:15
	Belle II Status & German Involvement <i>0.056, ROT building</i>	Florian Bernlochner 14:15 - 14:45
	LHCb Upgrade <i>0.056, ROT building</i>	Klaas Padeken 14:45 - 15:15
15:00	Exclusive B decays at the precision frontier (theory) <i>0.056, ROT building</i>	Nico Gubernari 15:15 - 15:45
	Precision flavour physics with inclusive penguin decays (theory) <i>0.056, ROT building</i>	Tobias Hurth 15:45 - 16:15
16:00	Coffee Break <i>0.056, ROT building</i>	16:15 - 16:45
	Social activities: Belle II Quizz + Karaoke: Belle II Germany Picture <i>U1.059, ROT</i>	16:45 - 17:00
17:00	PXD status and plans <i>U1.059, ROT</i>	Fabian Becherer 17:00 - 17:15
	PT <i>U1.059, ROT</i>	Maren Meinhard 17:15 - 17:30
	FSP <i>U1.059, ROT</i>	Veronika Kratzer 17:30 - 17:45
	Sustainability <i>U1.059, ROT</i>	Thomas Kuhr 17:45 - 17:55
	Next Belle II Germany meeting <i>U1.059, ROT</i>	17:55 - 18:00
18:00	ECR Session <i>0.056, ROT building</i>	

Invited external speakers:

- **Theorists:** Nico Gubernari, Tobias Hurth
- **LHCb upgrade:** Klaas Padeken

09:00	PXD Status and Operation Jarvis Schmitz I.027, ROT 09:00 - 09:25	B-HK nu nu Casper Schmitz 0.056, ROT building 09:00 - 09:15	Track finding efficiency in Belle II mu⁺ mu⁻ gamma gamma Events Lukas Grunbach
	Upgrade of the Belle II Vertex Detector with depleted monolithic CMOS active pixel sensors Yanick Duch	B-HK nu nu reinterpretation Lorenz Ernst Gao ...	Slow pion efficiency Melissa Mark Aldag
	GNN-ETM - Design and Deployment ... Habel/Hade I.027, ROT 09:50 - 10:15	Search for B$\rightarrow$piπ nu nu with tagging ... Boyang Yu	Graph Neural Network based Track Finding for SVD and CDC Tristan Brandes U1.059, ROT 09:40 - 10:05
	Theory talk: B meson fully hadronic ... Marta Bunge	Search for B$\rightarrow$Kπ^0 tau el with hadron... Lara Fleck	Detector Alignment at Belle II Tadashi Baba
Coffee Break & Institutional Posters 0.056, ROT building 10:30 - 11:00			
11:00	First Studies of a GNN based ECL Tr... Thomas Gibson L... I.027, ROT 11:00 - 11:25	Delta analysis of B$\rightarrow$D pi$^+$ pi$^-$ Melissa Mark Aldag	Advancements in Analysis-Level Ph... Martin Bart
	Upgrade of the Belle II First-Level N... Simon Fries I.027, ROT 11:25 - 11:50	tau$\rightarrow$3pi^0 nu: Integrating background ... Miriam Winkler	Development and Testing of a Neutron Identification Algorithm for Belle II Georgios Alexopoulos
12:00	Design of the CBELIX Monolithic Ac... Alexander Walter... I.027, ROT 11:50 - 12:15	R(D*) with inclusive tagging Pablo Novakovic	Photon efficiency calibration for MC16 Sebastian Ratz
	Theory talk: radiative correction to B... Mia Fries	R(D*) from 1-prong tau decays and L... Alan Tsai	Low-energy efficiency studies in SH... Dr Mengchuan Du
13:00			
14:00	Forward-backward asymmetry in B... Raymond van Tien...	Data production and science Valerio Bertucci U1.059, ROT 14:00 - 14:25	All-silicon detector modules for the inner pixel layers of the VTX upgrade Andreas Gm...
	Differential branching fraction and s... Mia Fries/Haniel Roy	SysVar: A new tool for enhancing co... Agnes Aggarwal et...	PXD Emergency Shutdown Investigation Paula Scholz
	Theory talk: B$\rightarrow$Kπ decays: which f... Miyun Gao	The Belle II Document Server David Koch U1.059, ROT 14:50 - 15:15	DePFET X-ray Irradiation Studies Georgios Giakoumelidis
15:00	Search for a new spin 0 mediator in ... Luc Brand	bRings for amplitude analysis Gabi Kuster	Challenges Of Hardware-Software ... Frank Michael Ba...
	Search for ALPs produced via photo... Frederik Schmitz	Theory talk: B mixing Zachary Winkler	I.027, ROT 15:15 - 15:40
Coffee Break & Institutional Posters 0.056, ROT building 16:00 - 16:30			
	Strategie für die nächste Förderperiode (PXD, Upgrade, Software, Computing, Analysen, FSP, Theorie) U1.059, ROT	Poster Session 0.056, ROT building 16:30 - 18:00	
17:00	Sprecher in der nächsten Förderperiode U1.059, ROT	17:00 - 17:30	
	ECR issues U1.059, ROT	17:10 - 17:30	
18:00	0.056, ROT building 16:30 - 18:00		

Tuesday

Wednesday

09:00	ML in Particle Physics <i>0.052, FTD</i>	Nicole Hartman 09:00 - 09:40
	Outreach <i>0.052, FTD</i>	Veronika Kratzer 09:40 - 10:10
10:00	FTD tour (Markus Ball) <i>0.052, FTD</i>	10:10 - 10:55
11:00	Coffee break (FTD) <i>0.052, FTD</i>	11:00 - 11:30
	ECR news <i>0.052, FTD</i>	Ana Luisa Moreira de Carvalho et al. 11:30 - 11:50
	Summary: Theory and Analysis <i>0.052, FTD</i>	11:50 - 12:10
12:00	Summary: Hardware and Upgrade <i>0.052, FTD</i>	12:10 - 12:30
	Summary: Software and Performance <i>0.052, FTD</i>	12:30 - 12:50
	Close-out <i>0.052, FTD</i>	Thomas Kuhr 12:50 - 13:00
13:00		

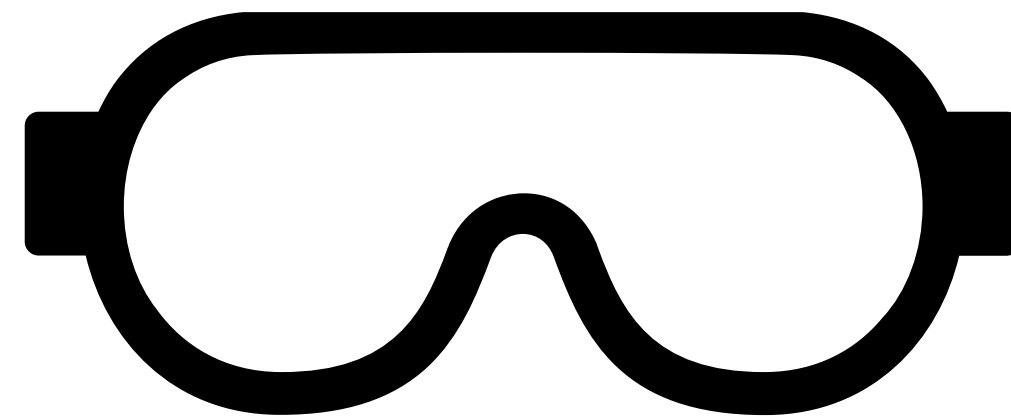
Invited external speakers:

- **ML expert:** Nicole Hartmann

Slide Protection

The event is public:

- If your slides contain material that is not to be shown to the general public, such as plots of ongoing analyses, please click "*Protected*" when you upload them and add access for the group "*LocalBelle2*"



Tuesday: Parallel Sessions

Thanks to conveners for leading their respective sessions:

Analysis & Theory Session:

- Valerio Bertacchi (Bonn)
- Ana Luisa Moreira de Carvalho (DESY)
- Nico Gubernari

Hardware and Upgrade Session:

- Christian Bepin (Bonn)
- Isabel Haide (KIT)

Performance & Software Session:

- Stefan Wallner (MPP)
- Patrick Ecker (KIT)

09:00	PXD Status and Operation Jannes Schmitz 3.020, ROT 09:00 - 09:25	B→K nu nu Caspar Schmitt 0.056, ROT building 09:00 - 09:16	Track finding efficiency in $\mu\mu^+\mu\mu^-$ $\gamma\gamma$ Events Lukas Grussbach
	Upgrade of the Belle II Vertex Detector with depleted monolithic CMOS active pixel sensors Yannik Buch	B→K nu nu reinterpretation Lorenz Emilio Gae...	Slow pion efficiency Melisa-Melek Akdag
	GNN-ETM - Design and Deployment ... Isabel Haide 3.020, ROT 09:50 - 10:15	Search for B→pi nu nu with tagging ... Boyang Yu	Graph Neural Network based Track Finding for SVD and CDC Tristan Brandes
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11:00	First Studies of a GNN based ECL Tri... Thomas Gideon L...	Dalitz analysis of B→D pi+ pi- Melisa-Melek Akdag	Advancements in Analysis-Level Pa... Martin Bartl
	Upgrade of the Belle II First-Level Neural Track Trigger by Three-Dimensional Hough Finding and Deep Neural Networks on FPGAs Simon Hiesl	tau→3pi nu: integrating background ... Minam Weiskopf	U1.059, ROT 11:00 - 11:30
	Design of the OBELIX Monolithic Act... Alexander Walze...	R(D*) with inclusive tagging Fabio Novissimo	Development and Testing of a Neutron Identification Algorithm for Belle II Georgios Alexandris
12:00		R(D*) from 1-prong tau decays and t... Ilias Tsakidis	Photon efficiency calibration for MC16 Sebastiano Raiz
		Theory talk: radiative correction to B... Max Ferré	Low-energy efficiency studies in Sit... Dr Mengchuan Du
13:00			
14:00	Forward-backward asymmetry in B→... Raynette van Tonder	Data production and skims Valerio Bertacchi	All-silicon detector modules for the inner pixel layers of the VTX upgrade Andreas Ulm
	Differential branching fraction and a... Ms Rajeshwan Roy	SysVar: A new tool for enhancing co... Agrim Aggarwal et...	PXD Emergency Shutdown Investigation Paula Scholz
	Theory talk: B→K+a decays: which f... Xiyuan Gao	The Belle II Document Server David Koch	DePFET X-ray Irradiation Studies Georgios Giakoukidis
15:00	Search for a new spin 0 mediator in ... Luc Brandl	Computing for Belle II at DESY Andreas Gelrich	Challenges Of Hardware-Software C... Frank Michael Ba...
	Search for ALPs produced via photo... Frederik Schmitt	U1.059, ROT 15:15 - 15:40	3.020, ROT 15:15 - 15:40
	Theory talk: B mixing Zachary Wüthrich	b2luigi for amplitude analysis Godo Kurten	

Tuesday: Poster Session(s)

Two types of poster sessions will take place in Foyer:

1. Institutional Posters (Tuesday coffee break sessions)

- We ask PIs to present their posters and students from other institutes to interact

2. Presentations Poster (Tuesday session starting @ 4:30 pm)

Coffee Break & Institute Posters

0.056, ROT building

10:30 - 11:00

Coffee Break & Institute Posters

0.056, ROT building

16:00 - 16:30

Poster Session

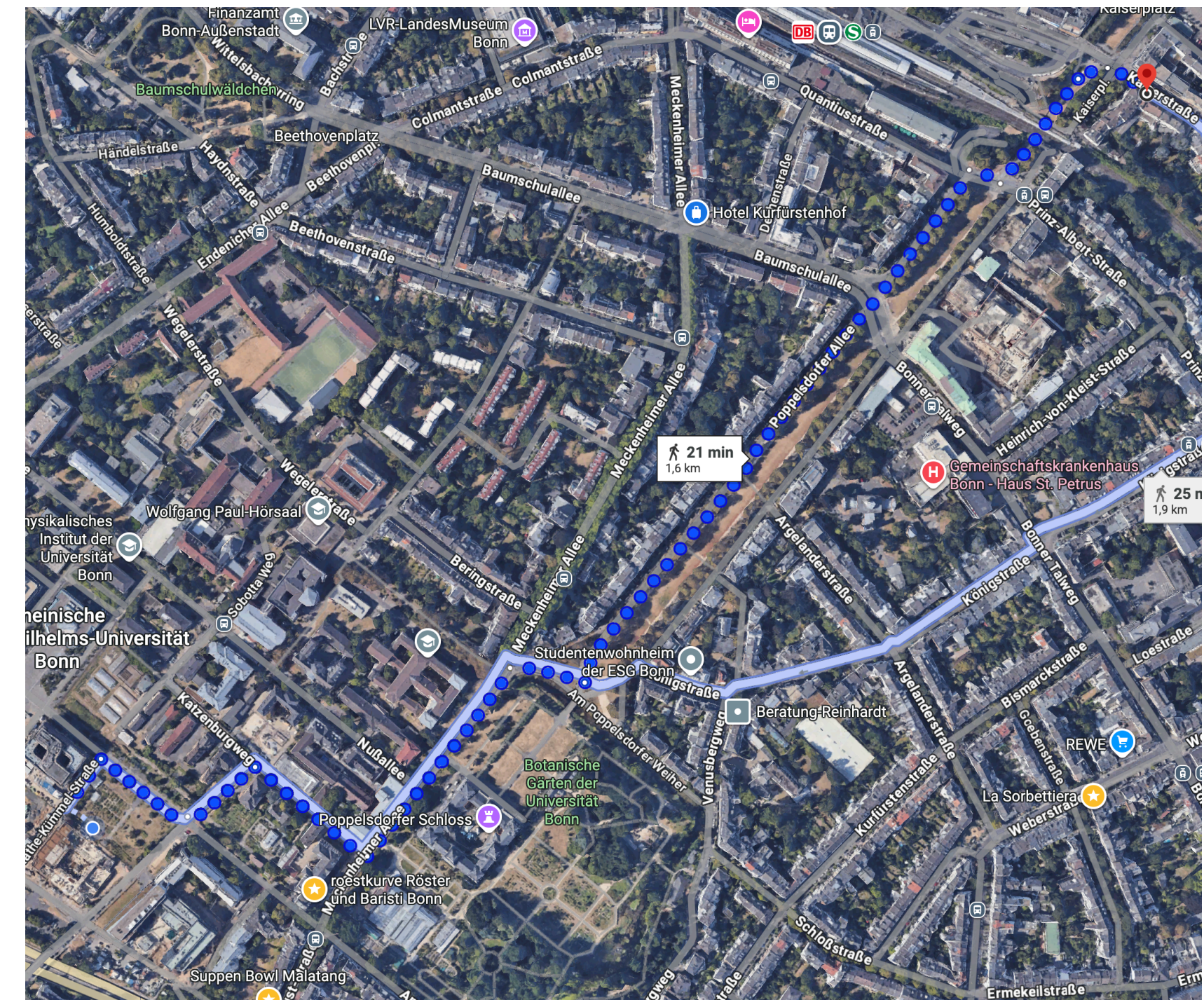
0.056, ROT building

16:30 - 18:00

You can pin your posters on Tuesday morning

ECR Activities

- Monday: the ECR session will be done in the **inner courtyard of the building** after the afternoon coffee-break.
 - Please **help to bring down drinks and snacks** from the coffee-break if you want to continue to enjoy them during the session!
- Tuesday: non-PI dinner, reservation at **60 seconds to Napoli, at 7pm.**
 - This dinner is not paid by the organizers



Speakapp Details

Belle II Germany Meeting @ Bonn (Plenaries)

- Link: <https://speakapp.link/to/KXBByw>

Belle II Germany Meeting @ Bonn (Parallel: Analysis and Theory)

- Link: <https://speakapp.link/to/Ngn8NA>

Belle II Germany Meeting @ Bonn (Parallel: Hardware and Upgrade)

- Link: <https://speakapp.link/to/ORKDrA>

Belle II Germany Meeting @ Bonn (Parallel: Software/Performance/Computing)

- Link: https://speakapp.link/to/C_esQQ

Lunch and Other Location Details

For lunch there are two options:

1. Cantine (Mensa Poppelsdorf CAMPO)

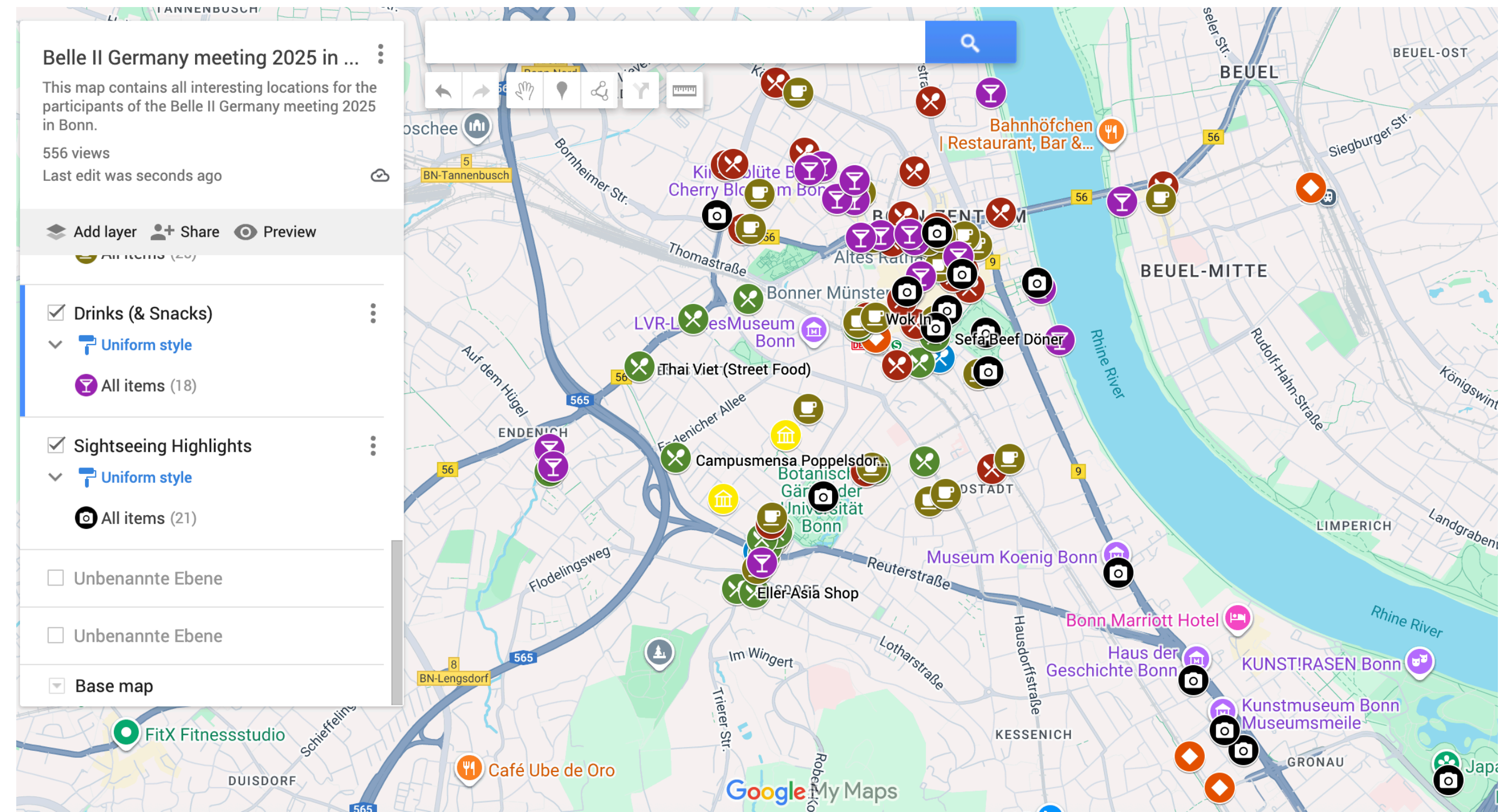
- Vegan, vegetarian, non-vegetarian options (you can pay with credit card for guest prices)
- [Menu](#)

2. Other restaurants (Poppelsdorf)

- [Map \(lunch spots\)](#)

Feel free to explore Bonn using this [map](#):

- conference venue(s)
- workshop dinner(s)
- cafe/pastries/ice-cream
- drinks
- sightseeing spots



Dinner(s)

Belle II Germany 2025 social dinner will take place in [Pheonica Lounge](#) @ 6.30 pm

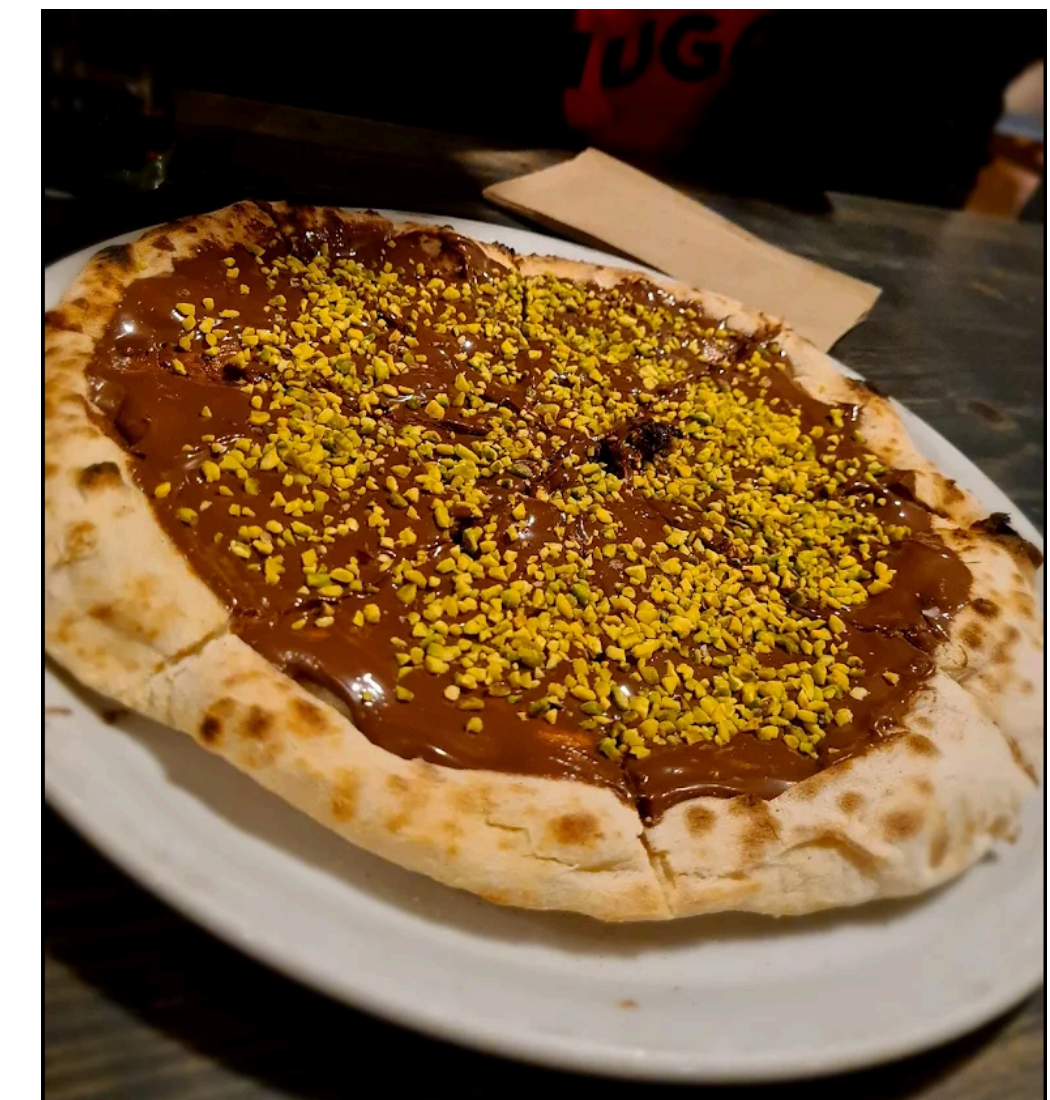
- Vegan, vegetarian, non-vegetarian options were taken into account
- Dinner + water is covered, if you want to order other drinks please have cash or EC card with you

Belle II Germany 2025 PI dinner will take place on Tuesday in [Antica Pizzeria Nenillo](#) @ 7 pm

- Self-paid

Belle II Germany 2025 ECR dinner will take place on Tuesday in [60 seconds to Napoli](#) @ 7 pm

- Self-paid



Social Activities & FTD Tour

On Monday afternoon we will take picture in the courtyard of the ROT building

- Please do not forget to wear a smile

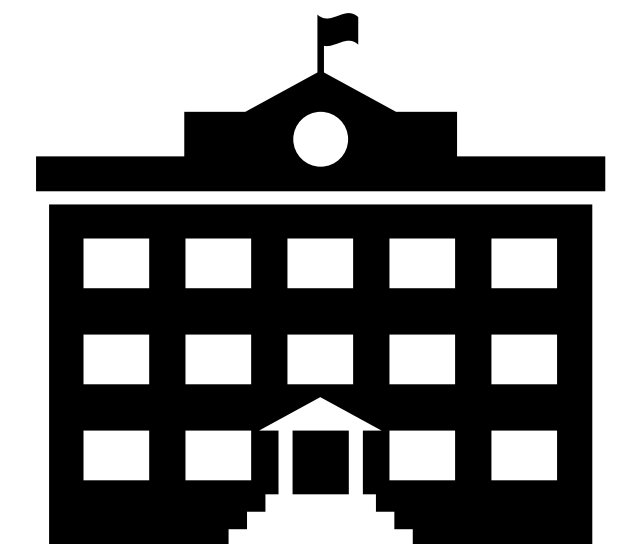
On Monday evening we will hold Belle II quizz and karaoke session in U1.059!

- (Local) drinks will be provided, you can also bring your own
- Check your doughnut sticker for team
- The doors close @ midnight



On Wednesday @ 10:10 am we will have tour of FTD building (Research and Technology Center for Detector Physics):

- We meet in front of the seminar room 0.052



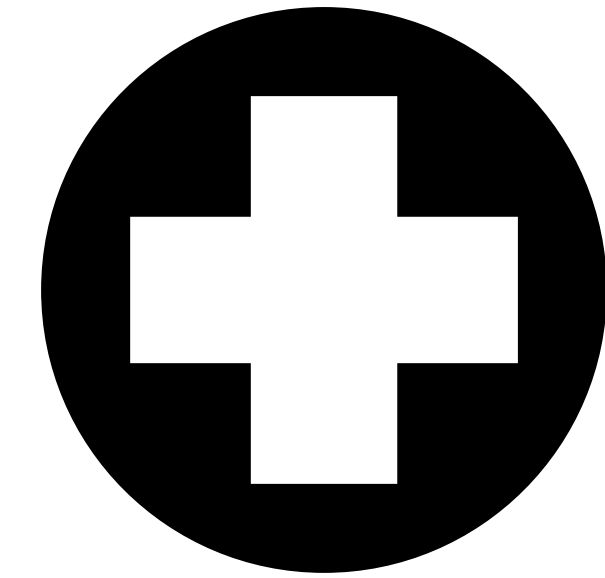
First Aid & Misconduct

In case there is a medical emergency let us know immediately:

- We have first-aiders + first aid room

In case you feel like there was a misconduct, please report this to:

- Sally Stefkova
- Markus Prim



Ask Locals

If you have any (other) question, you will identify locals with red & green bands!



Let's have productive meeting :)