

# Symposium on tritium science and technology

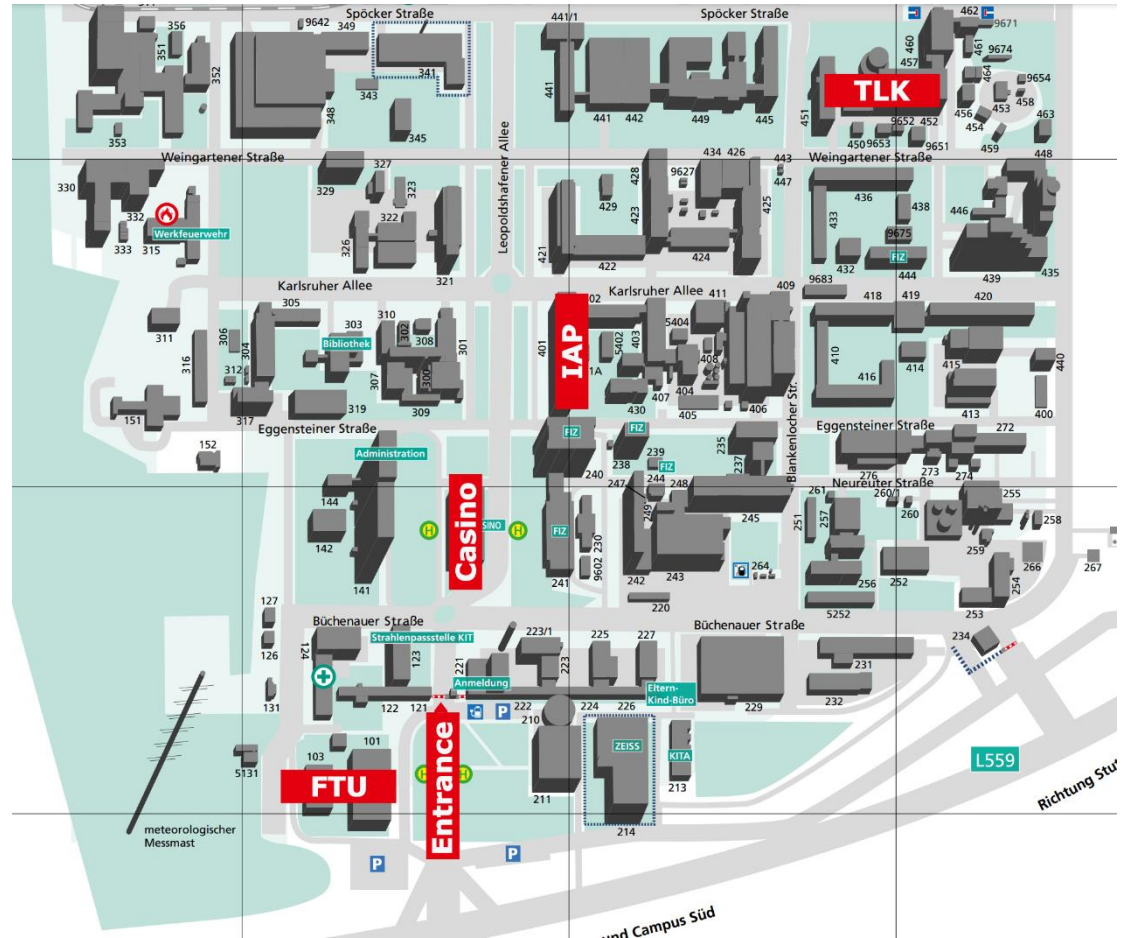
24<sup>th</sup> and 25<sup>th</sup> May 2023



# Sponsors



# Campus map



All information available

■ <https://indico.scc.kit.edu/event/3418/>



<b>09:00</b>	<b>B 401</b>	<b>R 410</b>	<b>Welcome</b>
<b>09:10</b>	<b>B 401</b>	<b>R 410</b>	<b>Neutrino physics with Tritium and atomic sources: Session 1</b>
09:10	Hamish Robertson		Tritium and the Mass of the Neutrino
09:45	Sebastian Böser		Towards an atomic tritium source for Project 8
10:10	Michael Sturm		Operation of the KATRIN molecular tritium source
10:35	B 401	R 410	Coffee break
<b>10:55</b>	<b>B 401</b>	<b>R 410</b>	<b>Neutrino physics with Tritium and atomic sources: Session 2</b>
10:55	Ruben Saakyan		Determination of absolute neutrino mass using quantum technologies
11:20	Nicolo de Groot		Tritium for cosmic neutrino detection with Ptolemy
11:45	Marco Röllig		Paving the Way: Towards an Atomic Tritium Source for KATRIN
12:10	Alec Lindman		Practicalities of Atomic Tritium for Project 8
12:35			Discussion / Perspectives
<b>13:00</b>	<b>Casino</b>		<b>Lunch break</b>
<b>14:00</b>	<b>B 401</b>	<b>R 410</b>	<b>Poster session</b>
15:00	B 401	R 410	Short break

~~15:15 B 401 R 410 Tritium and dark matter experiments~~  
 15:15 Michelle Galloway Tritium traces in rare-event search experiments

15:40 B 401 R 410 Short b

**Extended poster session 14:00 – 15:30**

**15:50 B 401 R 410 Fusion R&D – Fuel Cycle/Materials: Session 1**

15:50 Francisco Alberto Hernandez Gonzales The Breeding Blanket, the Core of a Thermonuclear Fusion Reactor. Technology, EU Concepts and Perspective

16:25 George Ana Activities in support of ITER/DEMO

16:50 Alessia Santucci ENEA activities in tritium recovery and processing for DEMO fuel cycle and blanket

17:15 B 401 R 410 Coffee break

**17:35 B 401 R 410 Fusion R&D – Fuel Cycle/Materials: Session 2**

17:35 Christoph Kirchlechner The Tritium Research in the Fusion Materials Laboratory

18:00 Knut Amis The Research Training Group GRK 2721: Hydrogen Isotopes

18:25 Florian Priester Sieverts' constant for  $H_2/D_2/T_2$  in eutectic PbLi

18:50 Discussion / Perspectives

**19:15 Walk to Dinner**

**19:30 B 451 Tent Dinner**

# Talks

- 21 talks!
- To keep on schedule we would like to ask all presenters to keep on time.
- Durations in the time table are always given with a discussion time of 5 minutes included.
- Indico upload on a voluntary basis. If you like, upload it yourself or send it to [caroline.rodenbeck@kit.edu](mailto:caroline.rodenbeck@kit.edu).

# Posters

- We have 23 poster submissions.
- We have scheduled two poster sessions of each one hour of duration
- All posters can be presented in one of the sessions or even in both.



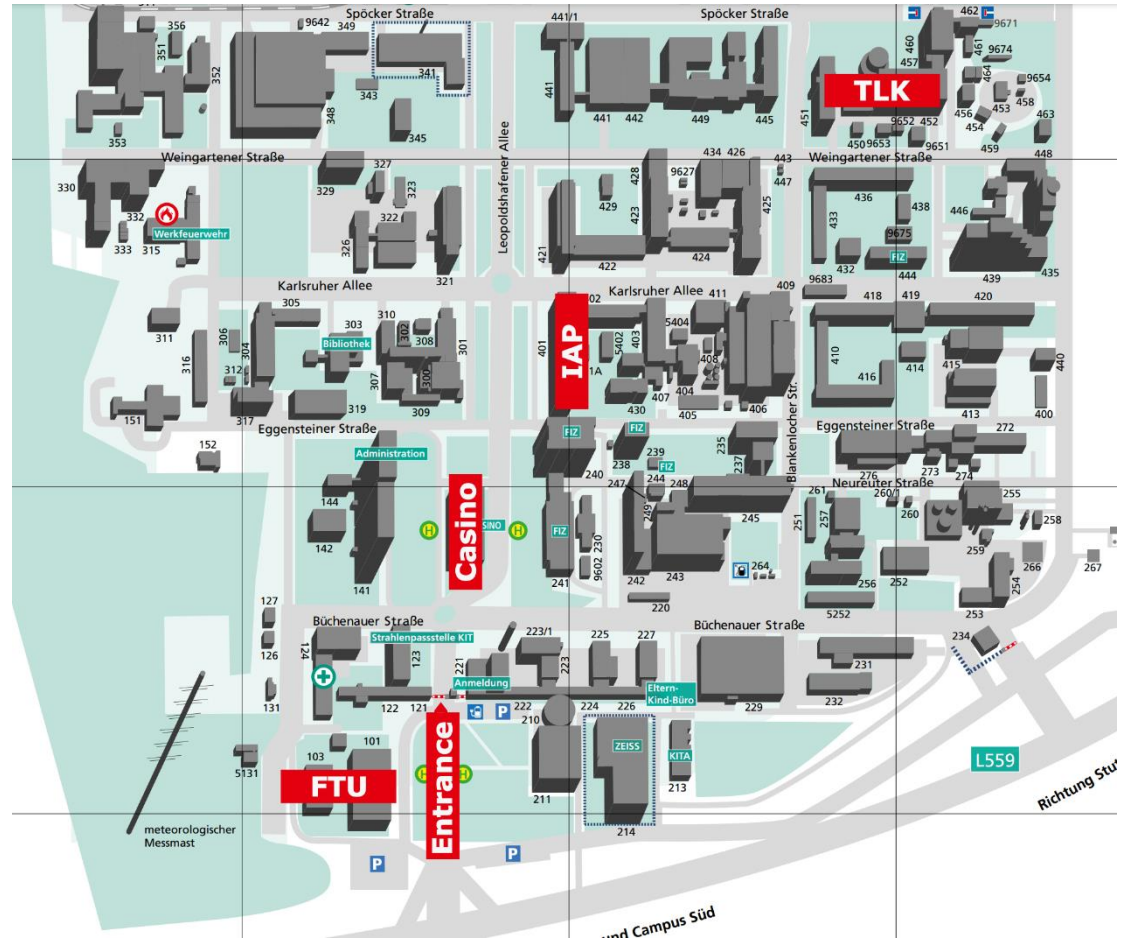
# Food

## ■ Lunch

- Voucher for casino

## ■ Dinner

- outside



# Bus schedule

**24<sup>th</sup> May 2023**

- 8:00 h** Bus from bus parking at Hauptbahnhof (central station) Karlsruhe (find location [here](#)).
- 8:15 h** Bus from Schlossbezirk (find location [here](#)).
- 8:45 h** Bus will stop at bus station in front of KIT Campus North.  
If you hop on the bus you don't need to register on your own at the gate.
- 8:30 h** Cab from Hotel Plaza, Am Mantel 1A, 76646 Bruchsal.
- 8:35 h** Cab from Hotel Ritter in Büchenau.
- 21:00 h** Bus and cabs will drive back to Hauptbahnhof, Schlossbezirk, Hotel Plaza and Hotel Ritter.

## Busses after end of 25th

- Please fill out list for final destination



Symposium „30 Years of Tritium Laboratory Karlsruhe“

Fusion Fuel Cycles and Blankets Workshop 2023



Joint hybrid session on „Fusion start-ups and Tritium“ (25.05.2023)

CEST	EDT	Title	Speaker	Affiliation
03:30 PM	09:30 AM	Introduction		
03:35 PM	09:35 AM	Overview of Private Fusion Efforts	Andrew Holland	Fusion Industry Association
03:45 PM	09:45 AM	Development of fuel cycle systems for D-T fusion power plants	Brandon Sorbom	Commonwealth Fusion Systems
04:10 PM	10:10 AM	Commercialization of Fusion Reactors	Sandra Romanelli	Tokamak Energy
04:35 PM	10:35 AM	Renaissance Fusion: Nuclear fusion concept and tritium related issues	Francesco Volpe	Renaissance Fusion
05:00 PM	11:00 AM	Tritium Laboratory Karlsruhe – opportunities for tritium research	Magnus Schlösser	Tritium Laboratory Karlsruhe
05:15 PM	11:15 AM	Discussions and Perspectives		

Zoom-link <https://zoom.us/j/96912291882>

