

Second PHITS in-person tutorial in Germany

FZ Jülich – Germany

Course date: 2nd Jun. – 6th Jun. 2025

Local organizer: Jingjing Li (FZ Jülich)

Tutors: Shinichiro Abe, and Tatsuhiko Ogawa (JAEA)

Registration deadline : May 1st 2025 (non-users)

May 15th 2025 (licensed users)

Venue: Forschungszentrum Jülich, Germany

Eligibility for participation: None (Open to everybody)

Registration Fee: Free

Language: English

Course content: Topic on the neutron source facility and instrumentation

Course level: Basic + Advanced course

AGENDA

Time	Topic	Presenter
Day 1 – 2nd June (Monday)		
07:30 - 09:00	Registrations of the participants	
09:00 - 09:30	Opening session <ul style="list-style-type: none"> ▪ Welcome speech (Host) ▪ Welcome speech (JAEA – Tutor) ▪ Participant self-introduction ▪ Logistical information(Host Organization) 	JCNS Tatsuhiko Ogawa
09:30 - 10:15	Introduction and Installation	Tutors/All
	Coffee break	
10:30 - 12:00	Basic Lecture (input format)	Tutors/All
	Lunch break	
13:30 - 14:45	Basic Lecture (geometry & source definition)	Tutors/All
	Coffee break	
15:00 - 17:00	Basic Lecture (tally definition)	Tutors/All
17:00 - 18:00	Mini Workshop	Participants
18:00 -	Free discussion with tutors	All

Time	Topic	Presenter
Day 2 – 3rd June (Tuesday)		
09:00 - 10:15	Basic Lecture (parameter setting)	Tutors/All
	Coffee break	
10:30 - 12:00	Basic Lecture (parameter setting) continued	Tutors/All
	Lunch break	
13:30 - 14:30	Exercise (melt snowman by proton beam!)	Tutors/All
	Coffee break	
14:15 - 15:45	Advanced Lecture (advanced source definition A)	Tutors/All
	Coffee break	
16:00 - 17:00	Advanced Lecture (advanced source definition B)	Tutors/All
17:00 - 18:00	Mini Workshop	Participants
18:00 -	Free discussion with tutors	All
Day 3 – 4th June (Wednesday)		
9:00 - 10:15	Advanced Lecture (Reaction physics settings)	Tutors/All
	Coffee break	
10:30 - 11:00	Advanced Lecture (Transform, Magnetic field, Multiplier, Counter, Timer)	Tutors/All
11:00 - 12:00	Exercise (stop α , β , γ -rays & neutron)	Tutors/All
	Lunch break	
13:30 - 15:15	Advanced Lecture (Transform, Magnetic field, Multiplier, Counter, Timer) continued	Tutors/All
	Coffee break	
15:30 - 17:00	Topical Lecture (Neutron beam transport)	Tutors/All
17:00 - 18:00	Mini workshop	Participants
18:00 -	Free discussion with tutors	All
Day 4 – 5th June (Thursday)		
9:00 - 10:15	Advanced Lecture (Practical shielding simulation)	Tutors/All
	Coffee break	
10:30 - 12:00	Advanced Lecture (variance reduction)	Tutors/All
	Lunch break	
13:30 - 15:15	Advanced Lecture (variance reduction) continued	Tutors/All
	Coffee break	
15:30 - 17:00	Visit the JULIC neutron platform	Tutors/All
	Coffee break	
17:00 - 18:00	Mini Workshop	Participants
18:00 -	Free discussion with tutors	All
19:00 - 21:00	Social dinner event	Tutor/All
Day 5 – 6th June (Friday)		
9:00 - 10:30	Advanced Lecture (induced radioactivity calculation with DCHAIN)	Tutors/All
	Coffee break	
10:30 - 11:00	Advanced Lecture (PHITS High Performance Computing)	Tutors/All
11:00 - 12:00	Individual hands-on exercises	Tutors/All
	Lunch break	
13:30 - 15:15	Advanced Lecture (automated run using script files)	Tutors/All
	Coffee break	

Time	Topic	Presenter
15:30 - 16:30	Mini Workshop	Participants
16:30 - 17:30	Wrap-up session Open discussion on the future of PHITS and its community in Germany	
17:30 - 18:00	Closing of the Tutorial <ul style="list-style-type: none"> ▪ Closing speech (Host) ▪ Closing speech (JAEA) ▪ Certificate award 	JCNS PHITS Tutor
18:00 -	Free discussion with tutors	All