

Dear colleagues,

It is our great pleasure to inform you that following PHITS international online tutorials will be held.

1, Beginners course, 6th-10th Jun. 2022.

2, Advanced course, 17th-21st Oct. 2022.

The course and PHITS license are completely free of charge.

The beginners' course is dedicated to those who would like to start using PHITS or those who once learned PHITS but would like to review it. Please feel free to forward this message to your colleagues who are interested in PHITS.

In order to participate to the tutorials, please be sure to have a proper network environment with which you can stably run a Zoom client.

Please follow the instructions below to register for the tutorials.

1, Tutorial registration

Access to <https://phits.jaea.go.jp/contact/edit/en>

Select "PHITS tutorial registration" in "Category" pull-down menu.

Fill out the form and send it.

If you wish to participate to both beginners and advanced courses, please send the form twice, one for the beginners' course and the other for the advanced course.

Remarks

Please type your full name including your middle names.

Please use your institutional email address (free addresses such as Gmail cause problems afterwards).

If you are a foreigner living in Japan more than 6 months, please write the name and E-mail address of your Japanese supervisor in the "message body".

If the webform does not work (i.e., you do not receive an automatic reply), please send the registration information to phits-en-tutorial@jaea.go.jp .

2, PHITS license application

Please select 2-1, 2-2 or 2-3 depending on your status.

2-1 For foreigners living in Japan more than 6 months

Access to <https://phits.jaea.go.jp/annai-tutorial.html>

Follow the instruction there. Please ask your Japanese supervisor to help you out.

2-2 For PHITS non-users or users with Ver.3.09 or older (i.e., everyone except the users whose PHITS license was granted after April 2019 by JAEA)

Access to <https://phits.jaea.go.jp/howtoget.html>

Fill out the form.

Send the form from <https://phits.jaea.go.jp/contact/edit/en> selecting "Submission of license application form" category.

If the webform does not work, please send the format to phits-license@jaea.go.jp .

2-3 For PHITS users with Ver.3.10 or newer (i.e., the users whose PHITS license was granted after April 2019 by JAEA)

You can download the latest version later. Please wait for the follow-up messages.

3, Read and follow the announcement (e.g., schedule, login guidance, etc.) sent from phits-en-tutorial@jaea.go.jp later.

PHITS office

----- Tutorial Timetable -----

Course Schedule (Time: Coordinated Universal Time)

Date : 17th-21st Oct. 2022. UTC 11:00-15:00 every day. (Short breaks: 12:00-12:10, 13:00-13:10, 14:00-14:10)

17th Oct. (Mon)

- 10:30 - 11:00 PHITS installation and checkup
- 11:00 - 12:00 Opening and overview of recent PHITS updates
- 12:00 - 13:30 Review Exercise 1 (stop α , β , γ -rays & neutron)
¥phits¥lecture¥exercise¥range
- 13:30 - 15:00 Review Exercise 2 (melt snowman by proton beam!)
¥phits¥lecture¥exercise¥snowman
- 15:00 - 16:00 Post-course free Q&A

18th Oct. (Tue)

- 11:00 - 12:30 Advanced Lecture 1 (definition of source energy distribution)
¥phits¥lecture¥advanced¥sourceA
- 12:30 Group photo
- 12:30 - 14:20 Advanced Lecture 2 (Cosmic rays)
¥phits¥lecture¥advanced¥CosmicRay
- 14:20 - 15:00 Advanced Lecture 3 (Counter, Transform, Magnetic field)
¥phits¥lecture¥advanced¥options
- 15:00 - 15:30 Post-course free Q&A

19th Oct. (Wed)

- 11:00 - 12:00 Advanced Lecture 4 (Counter, Transform, Magnetic field. Continued)
¥phits¥lecture¥advanced¥options
- 12:00 - 13:00 Advanced Lecture 5 (Variance reduction 1)
¥phits¥lecture¥advanced¥WeightA
- 13:00 - 15:00 Advanced Lecture 6 (Variance reduction 2)
¥phits¥lecture¥advanced¥WeightB
- 15:00 - 15:30 Post-course free Q&A

20th Oct. (Thu)

- 11:00 - 13:00 Advanced Lecture 7 (DCHAIN-PHITS)
 ¥phits¥lecture¥advanced¥DCHAIN1
- 13:00 - 15:00 Advanced Lecture 8 (automated run using script files)
 ¥phits¥utility¥script¥instruction
- 15:00 - 15:30 Post-course free Q&A

21st Oct. (Fri)

- 11:00 - 12:30 Advanced Lecture 9 (Medical data treatment)
 ¥phits¥utility¥RTphits
- 12:30 - 12:40 Closing session
- 13:40 - 15:00 Optional lectures (participants can take one of them)
- Advanced Lecture 10-1 (BNCT)
 ¥phits¥lecture¥therapy¥BNCT
- Advanced Lecture 10-2 (Accelerator and Shielding Design)
 ¥phits¥lecture¥advanced¥shielding
- Advanced Lecture 10-3 (X-ray therapy)
 ¥phits¥lecture¥therapy¥XrayTherapy
- Post-course free Q&A

Course Schedule (Time: **Japan Standard Time**)

Date : 17th-21st Oct. 2022. JST 20:00-24:00 every day.

(Short breaks: 21:00-21:10, 22:00-22:10, 23:00-23:10)

17th Oct. (Mon)

- 19:30 - 20:00 PHITS installation and checkup
- 20:00 - 21:00 Opening and overview of recent PHITS updates
- 21:00 - 22:30 Review Exercise 1 (stop α , β , γ -rays & neutron)
¥phits¥lecture¥exercise¥range
- 22:30 - 24:00 Review Exercise 2 (melt snowman by proton beam!)
¥phits¥lecture¥exercise¥snowman
- 24:00 - 25:00 Post-course free Q&A

18th Oct. (Tue)

- 20:00 - 21:30 Advanced Lecture 1 (definition of source energy distribution)
¥phits¥lecture¥advanced¥sourceA
- 21:30 Group photo
- 21:30 - 23:20 Advanced Lecture 2 (Cosmic rays)
¥phits¥lecture¥advanced¥CosmicRay
- 23:20 - 24:00 Advanced Lecture 3 (Counter, Transform, Magnetic field)
¥phits¥lecture¥advanced¥options
- 24:00 - 24:30 Post-course free Q&A

19th Oct. (Wed)

- 20:00 - 21:00 Advanced Lecture 4 (Counter, Transform, Magnetic field. Continued)
¥phits¥lecture¥advanced¥options
- 21:00 - 22:00 Advanced Lecture 5 (Variance reduction 1)
¥phits¥lecture¥advanced¥WeightA
- 22:00 - 24:00 Advanced Lecture 6 (Variance reduction 2)
¥phits¥lecture¥advanced¥WeightB
- 24:00 - 24:30 Post-course free Q&A

20th Oct. (Thu)

- 20:00 - 22:00 Advanced Lecture 7 (DCHAIN-PHITS)
¥phits¥lecture¥advanced¥DCHAIN1
- 22:00 - 24:00 Advanced Lecture 8 (automated run using script files)

Physics utility script instruction

24:00 - 24:30 Post-course free Q&A

21st Oct. (Fri)

20:00 - 21:30 Advanced Lecture 9 (Medical data treatment)

Physics utility RT physics

21:30 - 21:40 Closing session

21:40 - 24:00 Optional lectures (participants can take one of them)

Advanced Lecture 10-1 (BNCT)

Physics lecture therapy BNCT

Advanced Lecture 10-2 (Accelerator and Shielding Design)

Physics lecture advanced shielding

Advanced Lecture 10-3 (X-ray therapy)

Physics lecture therapy Xray Therapy

Post-course free Q&A