

Dear colleagues,

It is our great pleasure to inform you that the first advanced PHITS international online tutorial will be held 19-22nd Jul. 2021.

The course and PHITS license are completely free of charge.

This tutorial, including a lot of practical exercises, is dedicated to PHITS current users. We strongly advise beginners, in particular those who don't have a license, to take a beginner's course to be held in a few month later.

Please feel free to forward this message to your colleagues who might be interested in this tutorial.

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.

#### 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](mailto:phits-en-tutorial@jaea.go.jp) .

#### 2, PHITS license application

If you are not a current user, it is strongly advisable not to join this tutorial. If your license has expired, for example you still use version Ver3.09 or older, please follow the instruction below

to get PHITS latest version.

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 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](mailto: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., Zoom test, login guidance, etc) sent from [phits-en-tutorial@jaea.go.jp](mailto:phits-en-tutorial@jaea.go.jp) later.

PHITS office

----- Tutorial Details -----

Date : 19-22nd Jul. 2021. UTC 11:00-15:00 every day.

Web system : Zoom

Language : English

Registration deadline : 26th Jun. 2020

Tutors : (JAEA) Tatsuhiko Ogawa, Tatsuhiko Sato, Yosuke Iwamoto, Takuya Furuta, Shintaro Hashimoto, Shinichiro Abe, Hunter Ratliff, Yusuke Matsuya, (Yuho Hirata, if needed), (Kyushu University) Nobuhiro Shigyo

(Short breaks: 12:00-12:10, 13:00-13:10, 14:00-14:10)

19th Jul. (Mon)

- 11:00 - 12:00 PHITS installation and checkup
- 12:00 - 13:00 Opening and overview of recent PHITS updates
- 13:00 - 14:30 Review Exercise 1 (stop  $\alpha$ ,  $\beta$ ,  $\gamma$  -rays & neutron)  
¥phits¥lecture¥exercise¥range
- 14:30 - 15:00 Review Exercise 2 (melt snowman by proton beam!)  
¥phits¥lecture¥exercise¥snowman

20th Jul. (Tue)

- 11:00 - 12:00 Review Exercise (melt snowman by proton beam! Continued)  
¥phits¥lecture¥exercise¥snowman
- 12:00 - 13:30 Advanced Lecture 1 (definition of energy distribution)  
¥phits¥lecture¥advanced¥sourceA
- 13:30 - 15:00 Advanced Lecture 2 (automated execution using script files)  
¥phits¥lecture¥advanced¥script

21st Jul. (Wed)

- 11:00 - 12:00 Advanced Lecture 3 (Cosmic ray)  
¥phits¥lecture¥advanced¥CosmicRay
- 12:00 - 13:30 Advanced Lecture 4 (Counter, Transform, Magnetic field)  
¥phits¥lecture¥advanced¥options
- 13:30 - 15:00 Advanced Lecture 5 (Lattice and DICOM data conversion)  
¥phits¥lecture¥advanced¥voxel  
¥phits¥utility¥RT¥phits

22nd Jul. (Thu)

- 11:00 - 12:00 Advanced Lecture 6 (Variance reduction 1)  
¥phits¥lecture¥advanced¥WeightA
- 12:00 - 13:00 Advanced Lecture 7 (Variance reduction 2)  
¥phits¥lecture¥advanced¥WeightB
- 13:00 - 14:30 Advanced Lecture 8 (DCHAIN-PHITS)  
¥phits¥lecture¥advanced¥DCHAIN1
- 14:30 - 15:00 Closing session

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## Remarks

1, Please wait for a confirmation message sent to you when your participation is confirmed. Please do not forget to apply for PHITS license if you do not have PHITS Ver.3.10 or newer. If you are not sure if you need a license application, please contact [phits-license@jaea.go.jp](mailto:phits-license@jaea.go.jp)

2, Those who do not have to apply for the PHITS license will receive a message with a link to the latest version of PHITS (approx. 2G Bytes) some time before the tutorial.

3, Please prepare a computer environment which satisfies following conditions

\*OS: Windows (7 or later)、 Mac OS X(v10.6 or later)

\*RAM 1GB or more (ideally 2GB or more). More than 6GB of available disk space.

\*Login as an administrator.

\*PDF viewer and PPTX viewer, which are needed to open course materials, are installed.

\*Network stable for 4 days of tutorial.

\*Microphone (Web-camera is not mandatory)

\*(Recommended) Use of dual display, second PC, or Tablet PC is convenient to see PHITS and Zoom windows in parallel.