

# Announcement of the 1<sup>st</sup> English PHITS Tutorial in Japan

Place: Ibaraki Quantum Beam Research Center (IQBRC, close to JAEA and J-PARC)

Access map (<https://neutron.cross.or.jp/en/access-e/>)

Date: 2019 Aug. 20-21

Deadline for registration: 2019 Jul. 12

Registration Fee: FREE

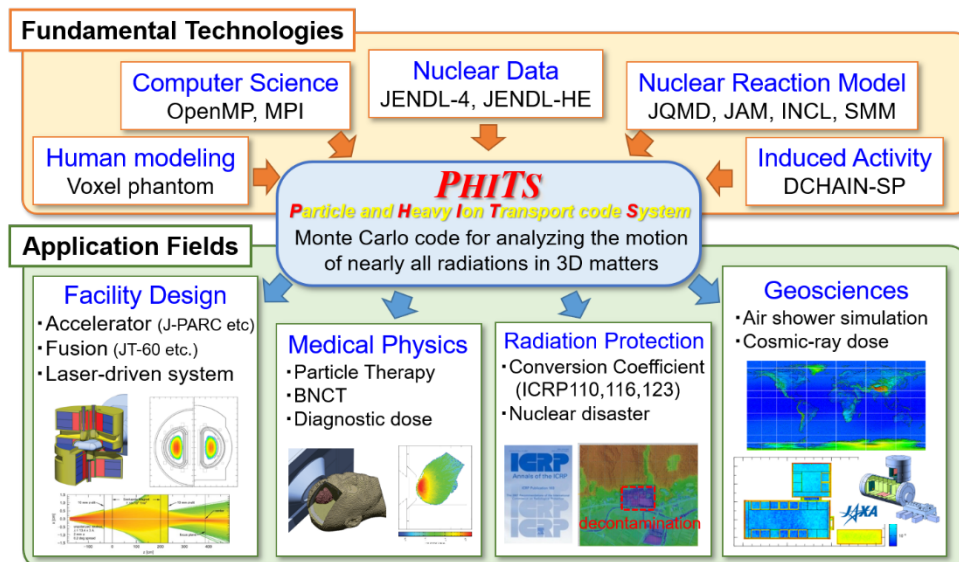
Language: English

Eligibility for participation: None (Open to everybody<sup>1</sup>)

Organizer: Japan Atomic Energy Agency (JAEA)

Note: Japanese PHITS tutorial will be held in parallel to the English course. We will have a reception party at the evening of Aug. 20 together with the attendees of Japanese course.

PHITS is a general purpose Monte Carlo particle transport simulation code developed under collaboration between Japan Atomic Energy Agency (JAEA) and several institutes all over the world. It can deal with the transport of nearly all particles over wide energy ranges, using several nuclear reaction models and nuclear data libraries. PHITS can support your researches in the fields of accelerator technology, radiotherapy, space radiation, and in many other fields which are related to particle and heavy ion transport phenomena. See PHITS website in more detail. (<http://phits.jaea.go.jp>)



<sup>1</sup> The distribution of the PHITS code is controlled by Japanese law, and we may not be able to accept the participation from some institutes or countries with concern of weapon development.

Attendees must register to the course via “[Contact](#)” page in the PHITS website. In the page, the category of “Registration for PHITS tutorial” should be selected, and the column of “Tutorial to attend” should be filled with “1st English PHITS tutorial in Japan”. In addition, if you would like to attend the reception party, please also write “I will attend the reception party” in the column. (It will cost 5,000 yen per person.) Then, the PHITS office will send application form to obtain the license of PHITS, which should be submitted in prior to the course. Attendees must bring a laptop PC with either Windows or Mac OS. During the course, they will learn the basic usage of PHITS such as the construction of 3D geometry and the definition of source particles and tallies. There is no particular skill that should be learned in prior to attending this course.

If you have any question about the course, please Email to [phits-office@jaea.go.jp](mailto:phits-office@jaea.go.jp).

### **Tentative Program**

August 20 (Tuesday)

10:10-10:30: Registration

10:30-11:40: Introduction and Installation

(lunch)

12:40-14:10: Basic Lecture (geometry & source definition)

14:10-15:10: Basic Lecture (source definition)

15:10-17:10: Basic Lecture (tally definition 1)

(reception party. Attendees must pay 5,000 yen per person by cash on site.)

August 21 (Wednesday)

9:30-10:30: Basic Lecture (tally definition 2)

10:30-12:00: Basic Lecture (parameter setting 1)

(lunch)

13:00-14:00: Basic Lecture (parameter setting 2)

14:00-15:00: Exercise (stop  $\alpha$ ,  $\beta$ ,  $\gamma$ -rays & neutron)

15:00-16:30: Exercise (melt snowman by proton beam!)

16:30-17:00: Summary & questions