

**Session Program**

**Aug 18 - 22, 2025**

**Geant4 Tutorial Course**

***Tutorial***

Jefferson Lab, CEBAF Center room F113

# Mon, August 18

9:30 AM

## Tutorial

**Session** | **Location:** Jefferson Lab, CEBAF Center room F113

09:30 - 09:45 **Welcome and introduction**

**Speakers**

Amber Boehnlein, Dr Makoto Asai

10:40 AM

09:45 - 10:40 **Kernel 1**

**Speaker**

Dr Makoto Asai

11:00 AM

## Tutorial

**Session** | **Location:** Jefferson Lab, CEBAF Center room F113

11:00 - 11:30 **User documents and examples**

**Speaker**

Maurizio Ungaro

11:30 - 12:00 **User interface 1**

**Speaker**

Dr Makoto Asai

12:30 PM

12:00 - 12:30 **Visualization**

**Speaker**

Maurizio Ungaro

1:30 PM

## Tutorial

**Session** | **Location:** Jefferson Lab, CEBAF Center room F113

13:30 - 14:10 **Physics overview**

**Speaker**

Dennis Wright

14:10 - 14:40 **Primary particle**

**Speaker**

Dr Makoto Asai

14:40 - 15:00 **Decay and optical processes**

**Speaker**

Dennis Wright

3:00 PM

## Tue, August 19

9:00 AM	<b>Tutorial</b> <b>Session</b>   <b>Location:</b> Jefferson Lab, CEBAF Center room F113
	<b>09:00 - 09:30</b> <b>Material definition</b> <b>Speaker</b> Maurizio Ungaro
10:40 AM	<b>09:30 - 10:40</b> <b>Geometry 1</b> <b>Speaker</b> Dr Makoto Asai
11:00 AM	<b>Tutorial</b> <b>Session</b>   <b>Location:</b> Jefferson Lab, CEBAF Center room F113
	<b>11:00 - 12:00</b> <b>Geometry 2</b> <b>Speaker</b> Dr Makoto Asai
12:30 PM	<b>12:00 - 12:30</b> <b>Analysis</b> <b>Speaker</b> Maurizio Ungaro
1:30 PM	<b>Tutorial</b> <b>Session</b>   <b>Location:</b> Jefferson Lab, CEBAF Center room F113
	<b>13:30 - 14:15</b> <b>EM physics 1</b> <b>Speaker</b> Maurizio Ungaro
3:00 PM	<b>14:15 - 15:00</b> <b>Scoring 1</b> <b>Speaker</b> Dr Makoto Asai

# Wed, August 20

9:00 AM

## Tutorial

Session | Location: Jefferson Lab, CEBAF Center room F113

09:00 - 09:40 **EM physics 2**

**Speaker**  
Dennis Wright

09:40 - 10:40 **Scoring 2**

**Speaker**  
Dr Makoto Asai

10:40 AM

11:00 AM

## Tutorial

Session | Location: Jefferson Lab, CEBAF Center room F113

11:00 - 11:30 **Geometry 3**

**Speaker**  
Dennis Wright

11:30 - 12:30 **Hadronic physics 1**

**Speaker**  
Maurizio Ungaro

12:30 PM

1:30 PM

## Tutorial

Session | Location: Jefferson Lab, CEBAF Center room F113

13:30 - 14:15 **Hadronic physics 2**

**Speaker**  
Dennis Wright

14:15 - 15:00 **User interface 2**

**Speaker**  
Dr Makoto Asai

3:00 PM

# Thu, August 21

9:00 AM

## Tutorial

**Session** | **Location:** Jefferson Lab, CEBAF Center room F113

09:00 - 09:30 **Hadronic physics 3**

**Speaker**  
Dennis Wright

09:30 - 10:10 **Geometry 4**

**Speaker**  
Dr Makoto Asai

10:10 - 10:40 **Event biasing and fast simulation**

**Speaker**  
Dennis Wright

10:40 AM

11:00 AM

## Tutorial

**Session** | **Location:** Jefferson Lab, CEBAF Center room F113

11:00 - 11:45 **Choosing and customizing physics list**

**Speaker**  
Dennis Wright

11:45 - 12:30 **Kernel 2**

**Speaker**  
Dr Makoto Asai

12:30 PM

3:50 PM

## Tutorial

**Session** | **Location:** Jefferson Lab, CEBAF Center room F113

15:50 - 16:20 **Multithreading and heterogeneous computing**

**Speaker**  
Dr Makoto Asai

16:20 - 16:40 **Updating Geant4 installation**

**Speaker**  
Maurizio Ungaro

16:40 - 17:00 **Q/A and concluding remarks**

**Speakers**  
Dr Makoto Asai, Maurizio Ungaro, Dennis Wright

5:00 PM