

## Session Program

30 June 2025 to 11 July 2025



## IEEE NPSS Prague EduCom International Summer School (PEISS) 2025

### *Lectures*

Institute of Experimental and Applied Physics, CTU in Prague, Conference centre  
Husova 240/5, 11000 Prague 1, Czech Republic

# Monday 30 June

10:00

## Lectures

**Session** |**Location:** Institute of Experimental and Applied Physics, CTU in Prague, Conference centre, Husova 240/5, 11000 Prague 1, Czech Republic

11:00

10:00–11:00

## The story of Timepix

**Speaker**

Benedikt Ludwig Bergmann

11:30

## Lectures

**Session** |**Location:** Institute of Experimental and Applied Physics, CTU in Prague, Conference centre, Husova 240/5, 11000 Prague 1, Czech Republic

12:30

## Tuesday 1 July

09:00

### Lectures

**Session** |

**Location:** Institute of Experimental and Applied Physics, CTU in Prague, Conference centre, Husova 240/5, 11000 Prague 1, Czech Republic

09:00–10:00

### Interaction of Radiation With Matter

**Speaker**

Tomáš Trojek

10:00

10:00

### Lectures

**Session** |

**Location:** Institute of Experimental and Applied Physics, CTU in Prague, Conference centre, Husova 240/5, 11000 Prague 1, Czech Republic

10:00–11:00

### TimePix for Imaging and Tomography

**Speaker**

Jan Dudak

11:00

11:30

### Lectures

**Session** |

**Location:** Institute of Experimental and Applied Physics, CTU in Prague, Conference centre, Husova 240/5, 11000 Prague 1, Czech Republic

11:30–12:30

### Gaseous Detectors

**Speaker**

Maxim Titov

12:30

## Wednesday 2 July

09:00

### Lectures

**Session** |**Location:** Institute of Experimental and Applied Physics, CTU in Prague, Conference centre, Husova 240/5, 11000 Prague 1, Czech Republic

09:00–10:00

#### Modern Engineering and AI

**Speaker**

Stefan Ritt

10:00

10:00

### Lectures

**Session** |**Location:** Institute of Experimental and Applied Physics, CTU in Prague, Conference centre, Husova 240/5, 11000 Prague 1, Czech Republic

10:00–11:00

#### Data Analysis and AI

**Speaker**

Yury Shitov

11:00

11:30

### Lectures

**Session** |**Location:** Institute of Experimental and Applied Physics, CTU in Prague, Conference centre, Husova 240/5, 11000 Prague 1, Czech Republic

11:30–12:30

#### What's next in Particle Physics?

**Speaker**

Maxim Titov

12:30



## Thursday 3 July

09:00

### Lectures

**Session** |

**Location:** Institute of Experimental and Applied Physics, CTU in Prague, Conference centre, Husova 240/5, 11000 Prague 1, Czech Republic

09:00–10:00

### Accelerators for the Present and Future of Particle Physics

**Speaker**

Maxim Titov

10:00

10:00

### Lectures

**Session** |

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10:00–11:00

### Radiation detectors: Imaging what you cannot see

**Speaker**

Cinzia Da Via

11:00

11:30

### Lectures

**Session** |

**Location:** Institute of Experimental and Applied Physics, CTU in Prague, Conference centre, Husova 240/5, 11000 Prague 1, Czech Republic

11:30–12:30

### Photodetectors and Photon Counting

**Speaker**

Masaharu Nomachi

12:30

# Monday 7 July

09:00

## Lectures

**Session** |

**Location:** Institute of Experimental and Applied Physics, CTU in Prague, Conference centre, Husova 240/5, 11000 Prague 1, Czech Republic

09:00–10:00

### Introduction to GATE Exercise

**Speaker**

Trang Hoang

10:00

10:00

## Lectures

**Session** |

**Location:** Institute of Experimental and Applied Physics, CTU in Prague, Conference centre, Husova 240/5, 11000 Prague 1, Czech Republic

10:00–11:00

### Basic Applications in Fundamental Research - Neutrino Physics

**Speaker**

Rastislav Hodak

11:00

11:30

## Lectures

**Session** |

**Location:** Institute of Experimental and Applied Physics, CTU in Prague, Conference centre, Husova 240/5, 11000 Prague 1, Czech Republic

11:30–12:30

### Measuring picoseconds and GHz

**Speaker**

Stefan Ritt

12:30

## Tuesday 8 July

09:00

### Lectures

**Session** |

**Location:** Institute of Experimental and Applied Physics, CTU in Prague, Conference centre, Husova 240/5, 11000 Prague 1, Czech Republic

09:00–10:00

### Astrophysics

**Speaker**

Adam Smetana

10:00

10:00

### Lectures

**Session** |

**Location:** Institute of Experimental and Applied Physics, CTU in Prague, Conference centre, Husova 240/5, 11000 Prague 1, Czech Republic

10:00–11:00

### The NPSS Booklet about Radiation Facts

**Speaker**

Patrick Le Dû

11:00

11:30

### Lectures

**Session** |

**Location:** Institute of Experimental and Applied Physics, CTU in Prague, Conference centre, Husova 240/5, 11000 Prague 1, Czech Republic

11:30–12:30

### Overview of Astroparticle Observations

**Speaker**

Robert Filgas

12:30

## Wednesday 9 July

09:00

### Lectures

**Session** |**Location:** Institute of Experimental and Applied Physics, CTU in Prague, Conference centre, Husova 240/5, 11000 Prague 1, Czech Republic

09:00–10:00

#### Introduction to Medical Imaging - X-rays, CT, MRI

**Speaker**

Andrea Gonzalez-Montoro

10:00

10:00

### Lectures

**Session** |**Location:** Institute of Experimental and Applied Physics, CTU in Prague, Conference centre, Husova 240/5, 11000 Prague 1, Czech Republic

10:00–11:00

#### Proton Therapy

**Speaker**

Martin Grossmann

11:00

11:30

### Lectures

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11:30–12:30

#### Medical Imaging: PET

**Speaker**

Andrea Gonzalez-Montoro

12:30

## Thursday 10 July

09:00

### Lectures

**Session** |**Location:** Institute of Experimental and Applied Physics, CTU in Prague, Conference centre, Husova 240/5, 11000 Prague 1, Czech Republic

09:00–10:30

#### Present and Future of Nuclear Power Engineering

**Speaker**

Jan Syblik

10:30

11:00

### Lectures

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11:00–12:30

#### Statistics and Measurements

**Speaker**

Karel Smolek

12:30

## Friday 11 July

09:00

### Lectures

**Session** |

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09:30

09:00–09:30

**Highlighting your work: Some simple suggestions and hints****Speaker**

Patrick Le Dû