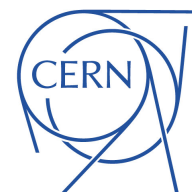


# ITW2023

## Study Groups



- 1 Particle Accelerators
- 2 Particle Detectors
- 3 Engineering at CERN
- 4 Medical Applications of Particle Physics
- 5 Computing & Data Analysis
- 6 Antimatter Research
- 7 Future Accelerators

### WEEK 1

#### **SG Session 1**

Wednesday, 9 August  
16:00-17:30

#### **SG Session 2**

Thursday, 10 August  
14:00-15:30 or 15:30-17:00

### WEEK 2

#### **SG Session 3**

Monday, 14 August  
16:00-17:30

#### **SG Session 4**

Thursday, 17 August  
14:00-17:00

### Last day of ITW2023

#### **SG Presentations**

Friday, 18 August  
9:30-12:30

### **Guiding research questions**

- A) To what extent is the topic featured in your curriculum?
- B) Which students' conceptions about the topic do you know?
- C) What is your experience with teaching the topic in your classroom?
- D) Which words and phrases can cause difficulties and misunderstandings?
- E) Which aspects of the topic do you consider challenging to teach to students?
- F) Which aspects of the topic do you think can be appropriately introduced in the classroom?

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### **Guidelines for the study group presentations**

#### 1) Curriculum & classroom connections

*Highlight potential connections to the various curriculums and your individual teaching practises*

#### 2) Key ideas

*Showcase the most important aspects of the topic that you consider to be key for a meaningful instruction*

#### 3) Potential students' conceptions & challenges

*Illustrate elements of the topic that might obstruct a successful introduction in the classroom*

#### 4) Helpful material and resources

*Reference any material that you find useful for your students and/or your colleagues*

#### 5) Best practice example

*Summarise your findings through a brief outline of an instructional strategy*