

# ITW2018

## Study groups



SG1 Medical applications of particle physics  
SG2 Particle accelerators  
SG3 Particle detectors  
SG4 Computing in particle physics  
SG5 Data analysis in particle physics  
SG6 Antimatter research  
SG7 Engineering in particle physics  
SG8 Astroparticle physics  
SG9 Exotic physics

### WEEK1

**SG Session 1**  
Wednesday, 8 August  
16:45-17:30

**SG Session 2**  
Thursday, 9 August  
16:00-17:30

### WEEK2

**SG Session 3**  
Monday, 13 August  
16:00-17:30

**SG Session 4**  
Thursday, 16 August  
14:00-17:00

### Last day of ITW2018

**SG Final Reports**  
Friday, 17 August  
9:00-12:30

### Guiding research questions about the SG topic

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

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### Guidelines for the final report & summary paper

#### 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*