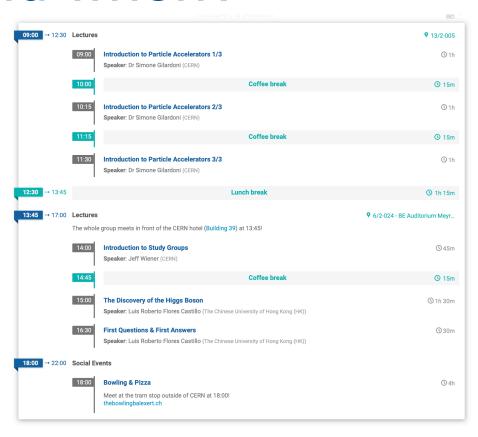
Introduction to Study Groups

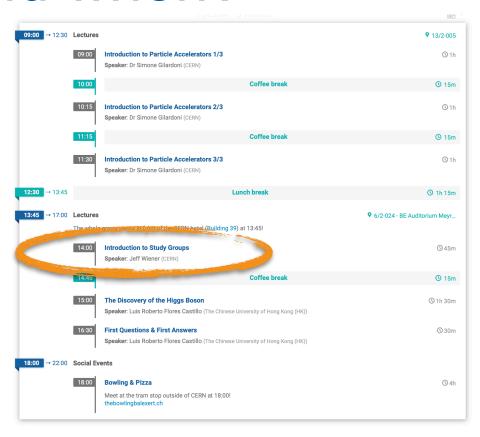
International Teacher Weeks Programme 2023



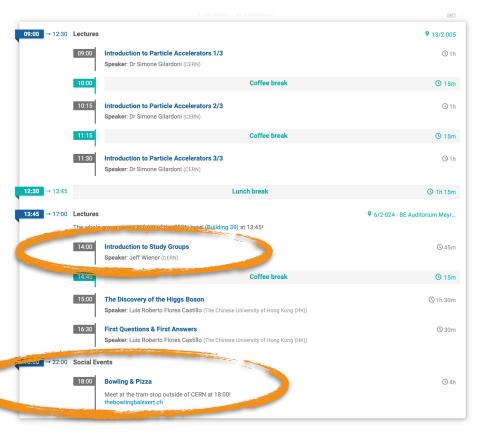














Which topics?



Which topics?



- 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





Be creative



Be creative Collaborate



Be creative Collaborate Share your experiences



Be creative Collaborate Share your experiences Learn from your colleagues



Be creative
Collaborate
Share your experiences
Learn from your colleagues
Create and develop something



Be creative
Collaborate
Share your experiences
Learn from your colleagues
Create and develop something

Independently & self-organised!



Be creative
Collaborate
Share your experiences
Learn from your colleagues
Create and develop something

Present the results and outcomes of your study group through a detailed and entertaining presentation

Independently & self-organised!



Be creative
Collaborate
Share your experiences
Learn from your colleagues
Create and develop something

Present the results and outcomes of your study group through a detailed and entertaining presentation

Independently & self-organised!

5x2mins + 5mins



Be creative
Collaborate
Share your experiences
Learn from your colleagues
Create and develop something

Present the results and outcomes of your study group through a detailed and entertaining presentation

Share the results with your students and your colleagues

Independently & self-organised!

5x2mins + 5mins



Be creative
Collaborate
Share your experiences
Learn from your colleagues
Create and develop something

Present the results and outcomes of your study group through a detailed and entertaining presentation

Share the results with your students and your colleagues

Independently & self-organised!

5x2mins + 5mins

Send us feedback!



Process

Guiding research questions about the SG topics

- 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?



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

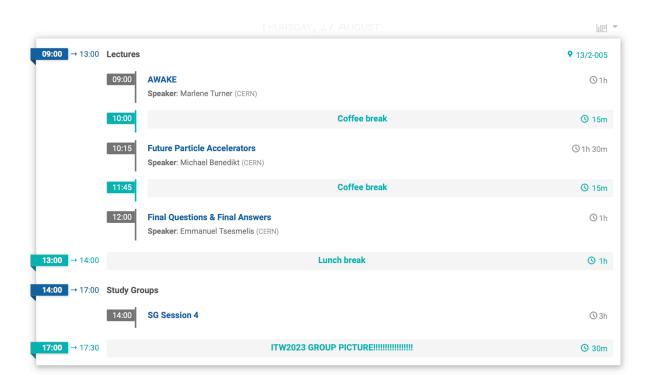
SG Session 4 Thursday, 17 August 14:00-17:00

Last day of ITW2023

SG Presentations Friday, 18 August 9:30-12:30

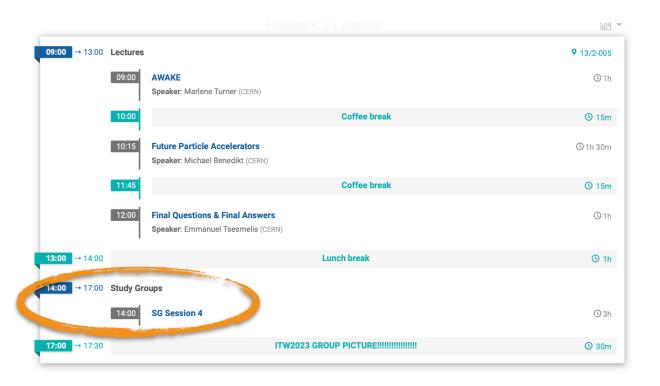


Deadline



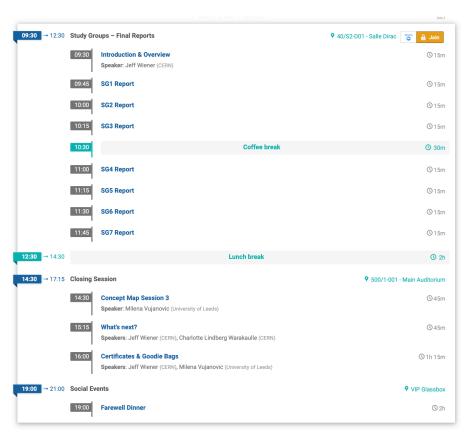


Deadline





Presentations





Output

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



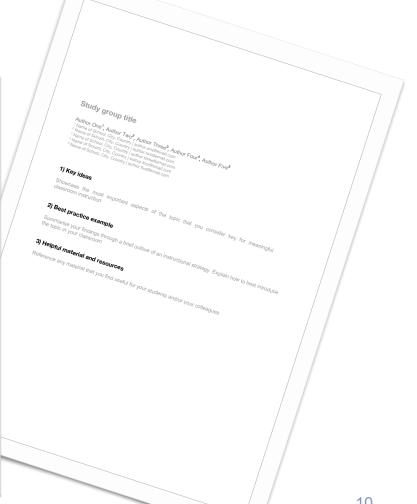
Output



ITW2023

Study Groups

FINAL REPORTS





Questions?

jeff.wiener@cern.ch

