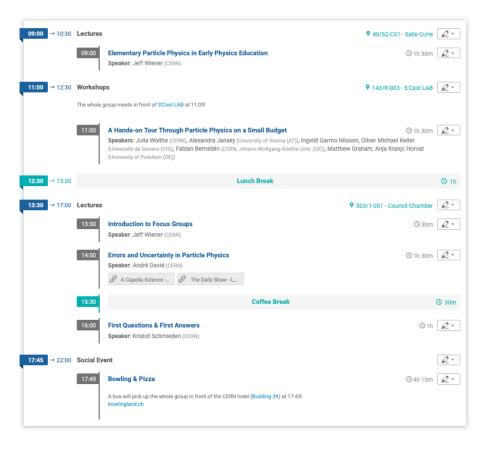
### Introduction to Focus Groups

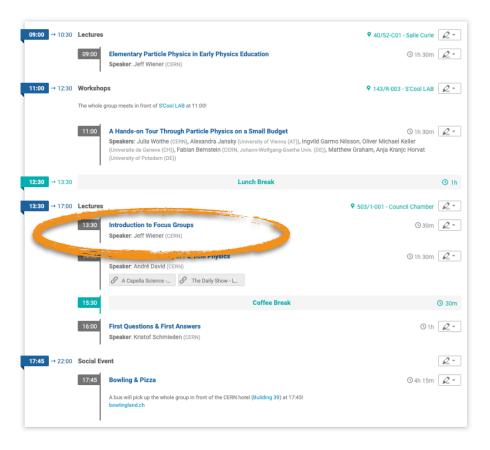
International Teacher Weeks Programme 2019



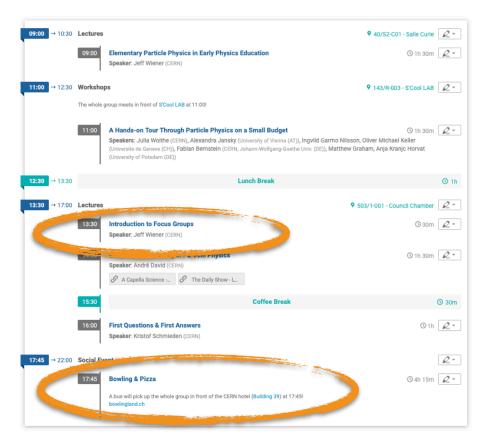
















WEEK1

FG Session 1

Wednesday, 7 August 15:30-17:00

FG Session 2

Thursday, 8 August

16:30-17:30

WEEK2

FG Session 3

Monday, 12 August 16:00-17:30

FG Session 4

Thursday, 15 August

14:00-17:00

Last day of ITW2019

**FG Final Reports** 

Friday, 16 August 9:00-12:30



## Which topics?



#### Which topics?

- 1 Particle Physics & Errors and Uncertainty
- 2 Particle Accelerators
- 3 Particle Detectors
- 4 Data Analysis in Particle Physics
- 5 Computing in Particle Physics
- 6 Medical Applications of Particle Physics
- 7 Higgs Physics
- 8 Antimatter Research
- 9 Future Accelerators



#### **Process**



#### **Process**

#### **Guiding research questions about the FG 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?





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 focus group through a detailed and extensive final report

Independently & self-organised!



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

Present the results and outcomes of your focus group through a detailed and extensive final report

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 focus group through a detailed and extensive final report

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 focus group through a detailed and extensive final report

Share the results with your students and your colleagues

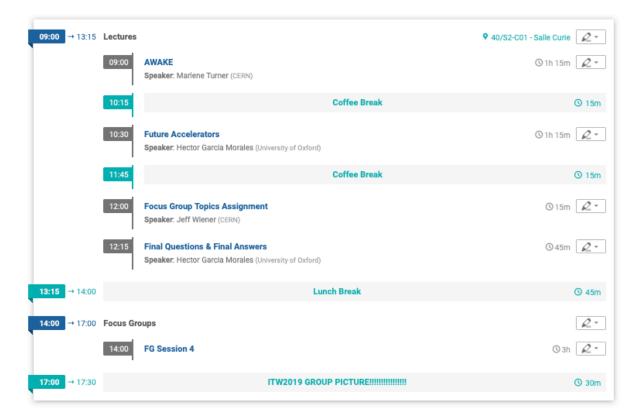
Independently & self-organised!

5x2mins + 5mins

Send us feedback!

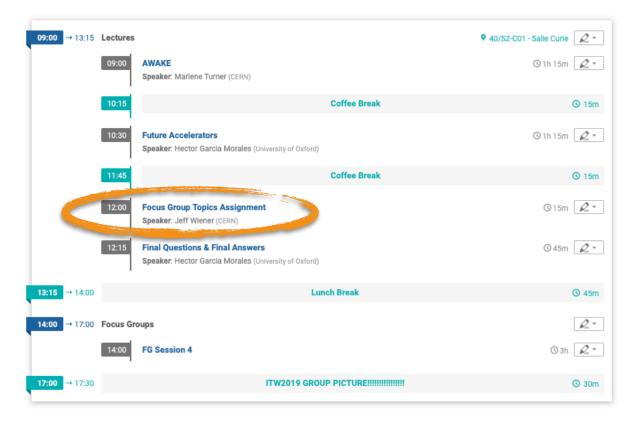


# FG assignment



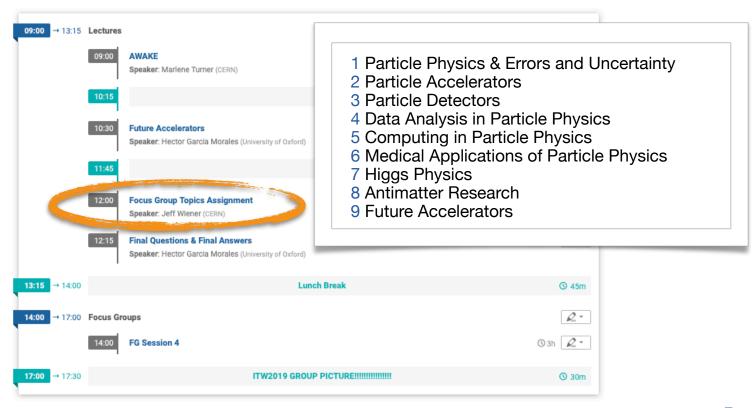


# FG assignment

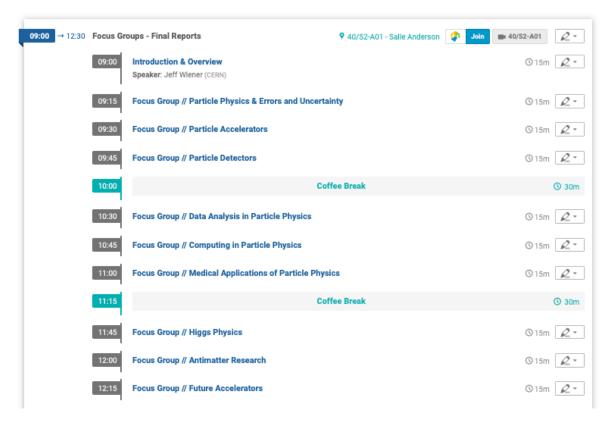




# FG assignment











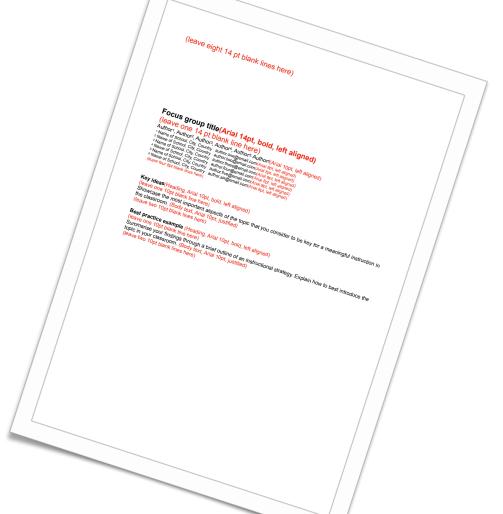
#### **Guidelines for the final report**

- 1) Curriculum & classroom connections (Presentation)

  Highlight potential connections to the various curriculums and your individual teaching practises
- 2) Key ideas (Presentation & Paper)
  Showcase the most important aspects of the topic that you consider to be key for a meaningful instruction
- 3) Potential students' conceptions & challenges (Presentation)

  Illustrate elements of the topic that might obstruct a successful introduction in the classroom
- 4) Helpful material and resources (Presentation)
  Reference any material that you find useful for your students and/or your colleagues
- 5) Best practice example (Presentation & Paper)
  Summarise your findings through a brief outline of an instructional strategy







### Questions?

jeff.wiener@cern.ch

