



Study Groups

International Teacher Weeks Programme

6 August 2024

Aims and goals

Aims and goals

- Collaborate with your colleagues

Aims and goals

- Collaborate with your colleagues
- Revisit key topics of the programme

Aims and goals

- Collaborate with your colleagues
- Revisit key topics of the programme
- Share your insights and experiences

Aims and goals

- Collaborate with your colleagues
- Revisit key topics of the programme
- Share your insights and experiences
- Learn from your colleagues

Aims and goals

- Collaborate with your colleagues
- Revisit key topics of the programme
- Share your insights and experiences
- Learn from your colleagues
- Create and develop material

Aims and goals

- Collaborate with your colleagues
- Revisit key topics of the programme
- Share your insights and experiences
- Learn from your colleagues
- Create and develop material
- Present your results at CERN

How and when?

TUESDAY, 6 AUGUST



09:00 → 12:30 **Lectures** 📍 40/S2-C01 - Salle Curie (CERN)

09:00 **Particle Accelerators** 🕒 1h 30m
Speaker: Mike Lamont (CERN)
📄 Int_Teachers_accel... 📄 Int_Teachers_accel...

10:30 **Coffee break** 🕒 30m

11:00 **Particle Detectors** 🕒 1h 30m
Speaker: Claire Lee (Fermi National Accelerator Lab. (US))
📄 Intro to Particle Det...

12:30 → 14:00 **Lunch break** 🕒 1h 30m

14:00 → 17:00 **Lectures** 📍 500/1-001 - Main Auditorium (...)

14:00 **Introduction to Study Groups** 🕒 1h
Speaker: Jeff Wiener (CERN)

15:00 **The Discovery of the Higgs Boson** 🕒 1h 30m
Speaker: Luis Roberto Flores Castillo (The Chinese University of Hong Kong (HK))

16:30 **First Questions & First Answers** 🕒 30m
Speaker: Luis Roberto Flores Castillo (The Chinese University of Hong Kong (HK))

18:00 → 22:00 **Social Events**

18:00 **Bowling & Pizza** 🕒 4h
Meet at the tram stop outside of CERN at 18:00!
We take tram 18 and exit at BALEXERT.
thebowlingbalexert.ch

How and when?

TUESDAY, 6 AUGUST



09:00 → 12:30 Lectures 📍 40/S2-C01 - Salle Curie (CERN)

09:00 Particle Accelerators 🕒 1h 30m
Speaker: Mike Lamont (CERN)
📄 Int_Teachers_accel... 📄 Int_Teachers_accel...

10:30 Coffee break 🕒 30m

11:00 Particle Detectors 🕒 1h 30m
Speaker: Claire Lee (Fermi National Accelerator Lab. (US))
📄 Intro to Particle Det...

12:30 → 14:00 Lunch break 🕒 1h 30m

14:00 → 17:00 Lectures 📍 500/1-001 - Main Auditorium (...)

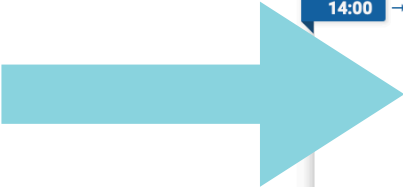
14:00 Introduction to Study Groups 🕒 1h
Speaker: Jeff Wiener (CERN)

15:00 The Discovery of the Higgs Boson 🕒 1h 30m
Speaker: Luis Roberto Flores Castillo (The Chinese University of Hong Kong (HK))

16:30 First Questions & First Answers 🕒 30m
Speaker: Luis Roberto Flores Castillo (The Chinese University of Hong Kong (HK))

18:00 → 22:00 Social Events

18:00 Bowling & Pizza 🕒 4h
Meet at the tram stop outside of CERN at 18:00!
We take tram 18 and exit at BALEXERT.
thebowlingbalexert.ch



How and when?

TUESDAY, 6 AUGUST



09:00 → 12:30 Lectures 📍 40/S2-C01 - Salle Curie (CERN)

09:00 Particle Accelerators ⌚ 1h 30m
Speaker: Mike Lamont (CERN)
📄 Int_Teachers_accel... 📄 Int_Teachers_accel...

10:30 Coffee break ⌚ 30m

11:00 Particle Detectors ⌚ 1h 30m
Speaker: Claire Lee (Fermi National Accelerator Lab. (US))
📄 Intro to Particle Det...

12:30 → 14:00 Lunch break ⌚ 1h 30m

14:00 → 17:00 Lectures 📍 500/1-001 - Main Auditorium (...)

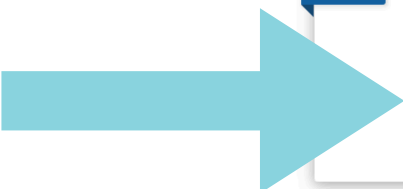
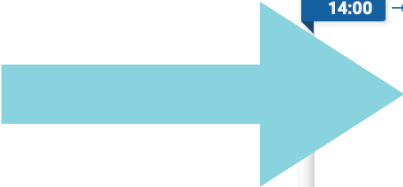
14:00 Introduction to Study Groups ⌚ 1h
Speaker: Jeff Wiener (CERN)

15:00 The Discovery of the Higgs Boson ⌚ 1h 30m
Speaker: Luis Roberto Flores Castillo (The Chinese University of Hong Kong (HK))

16:30 First Questions & First Answers ⌚ 30m
Speaker: Luis Roberto Flores Castillo (The Chinese University of Hong Kong (HK))

18:00 → 22:00 Social Events

18:00 Bowling & Pizza ⌚ 4h
Meet at the tram stop outside of CERN at 18:00!
We take tram 18 and exit at BALEXERT.
thebowlingbalexert.ch



Week 1

Week 1

Monday

Week 1

Monday

Tuesday

SG Intro

Bowling & Pizza

Week 1

Monday	Tuesday	Wednesday
	SG Intro	SG Session 1 16:00-17:30
	Bowling & Pizza	

Week 1

Monday	Tuesday	Wednesday	Thursday
			SG Report-Out 9:00-9:30
	SG Intro	SG Session 1 16:00-17:30	SG Session 2 16:30-18:00
	Bowling & Pizza		


Week 1

Monday	Tuesday	Wednesday	Thursday	Friday
			SG Report-Out 9:00-9:30	SG Report-Out 9:00-9:30
	SG Intro	SG Session 1 16:00-17:30	SG Session 2 16:30-18:00	
	Bowling & Pizza			

Process


Process

Checklist for SG Session 1

#	Type of Task	Task	Deadline
1	Individual	Fill in your section of the “ Study Group XX ” slide	Wednesday, 17:30
2	Group	Fill in “ Group Norms ” slide	Wednesday, 17:30
3	Individual	Fill in slides corresponding to your colour 	Wednesday, 17:30
4	Group	Fill in “ Our Key Takeaways ” and “ Our Feedback ” slides as a group. Make sure you all contribute to the discussion.	Wednesday, 17:30
5	Group	Decide how you as a group will present your group slides if you are selected to present during the SG Report-Out.	Wednesday, 17:30

Process


Checklist for SG Session 1

#	Type of Task	Task	Deadline
1	Individual	Fill in your section of the “Study Group XX” slide	Wednesday, 17:30
2	Group	Fill in “Group Norms” slide	Wednesday, 17:30
3	Individual	Fill in slides corresponding to your colour 	Wednesday, 17:30
4	Group	Fill in “Our Key Takeaways” and “Our Feedback” slides as a group. Make sure you all contribute to the discussion.	Wednesday, 17:30
5	Group	Decide how you as a group will present your group slides if you are selected to present during the SG Report-Out.	Wednesday, 17:30

Study Group 1


Participant Name
Country

One fun fact about myself




Participant Name
Country

One fun fact about myself




Participant Name
Country

One fun fact about myself




Participant Name
Country

One fun fact about myself




Participant Name
Country

One fun fact about myself



Participant Name
Country

One fun fact about myself



Process

Particle Physics

- 1) What are **three adjectives** that come to your mind when you think about particle physics?
- 2) To what extent is the topic of particle physics covered in your **national curriculum**?

Process

Particle Physics

- 1) What are **three adjectives** that come to your mind when you think about particle physics?
- 2) To what extent is the topic of particle physics covered in your **national curriculum**?

Particle Accelerators

- 1) What are **three key ideas** about particle accelerators that you would like your students to know about?
- 2) What are **potential challenges** students might encounter when learning about particle accelerators?

Week 1

Monday	Tuesday	Wednesday	Thursday	Friday
			SG Report-Out 9:00-9:30	SG Report-Out 9:00-9:30
	SG Intro	SG Session 1 16:00-17:30	SG Session 2 16:30-18:00	
	Bowling & Pizza			

Report-Out

Report-Out

Our Key Takeaways so far

Instructions: Write in the box any insights, learnings and discussion outcomes.

(Decide how you as a group will present them if you are selected to present during the SG Report-Out.)

Report-Out

Our Key Takeaways so far

Instructions: Write in the box any insights, learnings and discussion outcomes.

(Decide how you as a group will present them if you are selected to present during the SG Report-Out.)

Our Feedback so far

- Highlights?
- What's working?
- What needs improvement?
- Other comments?
- Funny picture or meme?

(Decide how you as a group will present them if you are selected to present during the SG Report-Out.)

Week 2

Week 2

Monday

SG Session 3
16:00-17:30

Week 2

Monday	Tuesday
	SG Report-Out 9:00-9:30
SG Session 3 16:00-17:30	

Week 2

Monday	Tuesday	Wednesday
	SG Report-Out 9:00-9:30	
SG Session 3 16:00-17:30		

Week 2

Monday	Tuesday	Wednesday	Thursday
	SG Report-Out 9:00-9:30		
SG Session 3 16:00-17:30			SG Session 4 14:00-17:00


Week 2

Monday	Tuesday	Wednesday	Thursday	Friday
	SG Report-Out 9:00-9:30			SG Presentations 9:00-12:30
SG Session 3 16:00-17:30			SG Session 4 14:00-17:00	

Process


Process

Checklist for SG Session 4

#	Type of Task	Task	Deadline
1	Individual	Fill in slides corresponding to your colour 	Thursday, 14:30
2	Group	Fill in the “ Our Key Takeaways from ITW2024 ” slide as a group. Make sure you all contribute to the discussion.	Thursday, 15:00
3	Group	Discuss the topic that was assigned to your study group for the Final Presentation on Friday morning . Share and collect your individual experiences with this topic.	Thursday, 16:00
4	Group	Prepare a detailed and entertaining presentation to share your results with your colleagues. Make sure that everyone plays an active role during the Final Presentation!	Thursday, 17:00

Process

Checklist for SG Session 4

#	Type of Task	Task	Deadline
1	Individual	Fill in slides corresponding to your colour 	Thursday, 14:30
2	Group	Fill in the “ Our Key Takeaways from ITW2024 ” slide as a group. Make sure you all contribute to the discussion.	Thursday, 15:00
3	Group	Discuss the topic that was assigned to your study group for the Final Presentation on Friday morning . Share and collect your individual experiences with this topic.	Thursday, 16:00
4	Group	Prepare a detailed and entertaining presentation to share your results with your colleagues. Make sure that everyone plays an active role during the Final Presentation!	Thursday, 17:00

Final Presentation Guidelines

Presentation	10 minutes + 5 minutes for Q&A
Style	Fun, entertaining & on time!
Contents	<ol style="list-style-type: none">1. Curriculum & classroom connections2. Key ideas3. Potential students' conceptions & challenges4. Helpful material and resources5. Best practice example
Final Slide	Key Takeaways & Goodbye messages

Final Presentations

FRIDAY, 16 AUGUST



09:00 → 13:00 **Study Group Presentations** 503/1-001 - Council Chamber [Join](#)

09:00	Introduction & Overview Speaker: Jeff Wiener (CERN)	15m
09:15	SG Report	15m
09:30	SG Report	15m
09:45	SG Report	15m
10:00	Coffee break	30m
10:30	SG Report	15m
10:45	SG Report	15m
11:00	SG Report	15m
11:15	Coffee break	30m
11:45	SG Report	15m
12:00	SG Report	15m
12:15	SG Report	15m

Merci bien!

Questions?



cern.ch/jeff.wiener