



Welcome!

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Liverpool@CERN Summer School - 16/08/2021

Welcome

- Welcome to the 1st Liverpool@CERN online school!
- We'll run Monday-Friday, starting at 10 am UK time.
- When no one is sharing their screen, it'd be appreciated to have the cameras on – let's keep online events familiar!
- Feel entirely free to ask <u>any</u> questions during talks/workshops
 - Talks will cover complex topics that speakers are familiar with. You
 may be asking a question everyone is wondering about!
 - You can either speak up or use the chat!

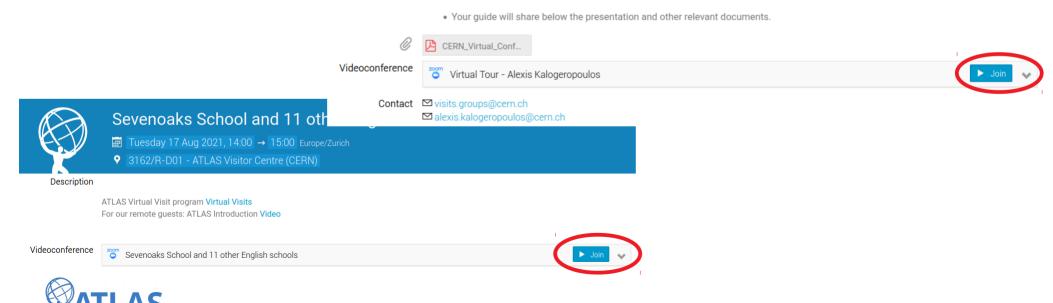


Group activities

- You've been divided into 6 groups (4 people each)
- Each group has been assigned into a breakout room, which will be used to discuss with your teammates when appropriate.
- Different activities will involve working with your group (starting today!):
 - Icebreaker/Wikipedia treasure hunt
 - Hands on workshops
 - New physics discovery
 - You will choose a new physics phenomena, further investigate it and propose an experiment to detect it. Each group will present their findings on Friday.
 - May want to pay extra attention to Beyond SM (today) and Particle Detection (tomorrow) lectures!

Virtual tours

- Links should be available on your registration emails.
- CERN Virtual Tour: https://indico.cern.ch/event/1064812/
- ATLAS Virtual Tour: https://indico.cern.ch/event/1064297/

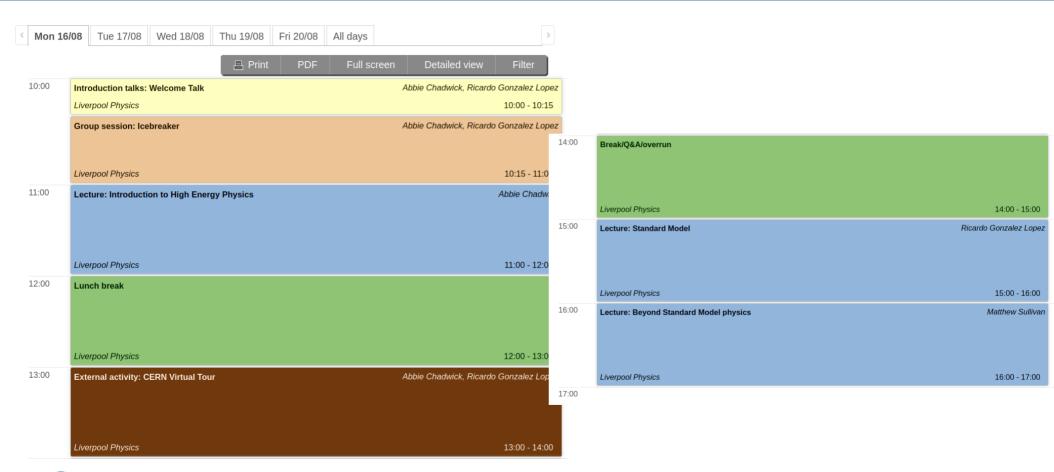


Physics beyond CERN

- Special session on Friday.
- Since most of the content in the school heavily focuses on CERN/LHC activities, we'll have a look at other experiments working in particle physics.
- Five colleagues from the department will give quick talks on their experiments and PhD experiences.
- You'll have the opportunity to ask them questions, both at their talks and at a special Q&A session.
 - Great time to ask any question that comes up during the week that you have no chance to ask!



Today





Icebreaker

- Link: https://forms.office.com/r/gLWvw3MsHU
- You only need to submit one answer per team!
- Make sure you sort out a way to get in contact with each other once the school is online
- If there's any questions, feel free to come back to the main Zoom room to ask



Thanks for your attention and hope you enjoy the school!



Treasure hunt solutions

- CERN Director General
 - Fabiola Gianotti
- Typeface
 - Comic Sans
- The letter stands for...
 - Toroidal
- Operation temperature
 - 4.7
- The detector is...
 - Big European Bubble
 Chamber
- Sat in a beam of...
 - Neutrinos

- Room number
 - 137
- The force is...
 - Electromagnetic
- 4 letters + year
 - Geramart1999
- Experiment conducted by...
 - Chien-Shiung Wu
- Prize won in 1978
 - Wolf Prize in Physics
- Instrument
 - Recorder
- Earliest use of the instrument name
 - 1388

Title of document

- Information Management:a proposal
- Ink colour
 - Red
- Quark colours
 - Blue, Green
- Theory
 - Quantum chromodynamics
- Name of collider
 - PETRA
- Bike inventor
 - Mikael Pendersen
- Nobel Prize winner
 - Louis de Broglie

