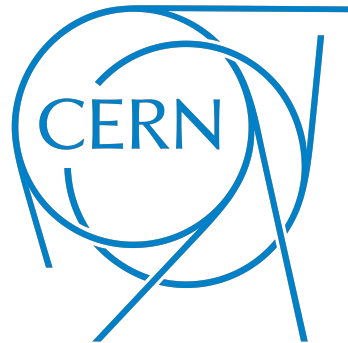




Welcome Liverpool@CERN Particle Physics School

Cristiano Sebastiani
22 Aug 2022



UNIVERSITY OF
LIVERPOOL

Intro

- Welcome to the 2nd edition of [Liverpool@CERN](#) 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 any 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 will be divided into groups for group activities of ~4 people each (N.B. group composition will be different for each activity)
- Each group will be 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!
 - We can help set-up shared google accounts to work together on the project

Virtual tours

- Links should be available on your registration emails.
- CERN Virtual Tour: <https://indico.cern.ch/event/1191467/>
- ATLAS Control Room Tour: via zoom

Description A presentation about CERN by Sonia Natale.

Format of the talk:

- 40 minutes presentation
- 20 minutes questions and answers

Instructions:

Before the day of the talk

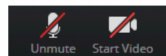
- For your own comfort, you may download the presentation slides (see link below) to watch it locally on your computer.
- You can test your computer audio and video connection on <https://zoom.us/test>.

On the day of the talk

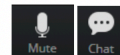
- Join the videoconference by clicking the "Join" blue button below.
- You can connect the videoconference through either (left to your own choice)
 - your favorite browser (you may have to authorize your browser to access your microphone and camera if you want to use them)
 - the Zoom application (automatically proposed for download)
- You don't have to create a Zoom account to connect to the videoconference. If offered to do so, please decline.
- Once connected, confirm you join with the computer audio.



- During talk, please switch off your own camera and microphone but leave the sound on.



- You can ask questions by using your **unmuted** microphone or the chat.



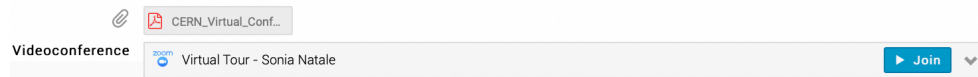
- Thanks for respecting the speaker and other participants.
- After the talk, please take 2 minutes to fill out the survey by clicking the "Fill out" blue button below. The button will only appear after the conference has started.

To know more about CERN...

- [visit.cern/discover-cern-online](https://cern.ch/discover-cern-online)

Talk material

- Your guide will share below the presentation and other relevant documents.



Particle 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.
- Early career scientist from Liverpool physics 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's agenda and links

10:00	Introduction Monday <i>Liverpool Physics</i>	<i>Cristiano Sebastiani</i> 10:00 - 10:15	14:00	Break/Q&A/overrun <i>Liverpool Physics</i>	14:00 - 15:00
	Group session: Icebreaker <i>Liverpool Physics</i>	<i>Cristiano Sebastiani</i> 10:15 - 11:00	15:00	Standard Model <i>Liverpool Physics</i>	<i>Ricardo Gonzalez Lopez</i> 15:00 - 16:00
11:00	Introduction to High Energy Physics <i>Liverpool Physics</i>	<i>Adam Ruby</i> 11:00 - 12:00	16:00	Beyond Standard Model physics <i>Liverpool Physics</i>	<i>Matthew Sullivan</i> 16:00 - 17:00
12:00	Lunch break <i>Liverpool Physics</i>	12:00 - 13:00			

Icebreaker

- Link: <https://forms.office.com/r/AUFtRFHAhJ>
- 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
- ... but first, a quick roundtable introduction

Enjoy the school :)