



Romanian High-School Students Internship Programme 2024

program dedicat elevilor români

2 – 16 iunie 2024









Accompanying teachers @CERN

- Diana Bejan, Colegiul Național de Informatică Piatra Neamț
- Dan Pruteanu, Colegiul de Științe ale Naturii "Emil Racoviță"
- Tiberiu-Virgil Drăgoiu-Luca, Facultatea de Fizică, Universitatea Babes-Bolyai Cluj-Napoca







• Echipa la CERN (şi din România):

Sascha Schmeling, CERN

Sarah Zöchling, CERN

Roxana Zus, UB

Călin Alexa, IFIN-HH

Alexandra Tudorache, IFIN-HH

Valentina Tudorache, *IFIN-HH*

Ioana Duminică, UB & IFIN-HH

• Echipa din România:



Marina Rotaru, *IFIN-HH*Raluca Sibinescu, *UB*Andreea Cârstea, *UB*Cristina Melinte, IFA



+ support from ministries, academics, researchers, administration



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Sesiunea de deschidere / Opening plenary

Prezentarea introductivă/ Introduction to HSSIP-RO 2024:
 Sarah Zöchling, HSSIP CERN

- Prezentarea programului şi a temelor pentru prezentări / Introduction to the programme and the prezentations
 Roxana ZUS, reprezentant România CERN Teacher and Student Forum, Universitatea din Bcucureşti
 & the HSSIP-RO team
- Prelegerea inaugurală / Opening lecture: Jeff Wiener, CERN Teacher Programmes Manager Introduction to CERN

Moderator: Roxana ZUS, Facultatea de Fizică, Universitatea din București



Your contribution?

Enjoy the lectures, the visists, the interaction with everyone@CERN!

Prepare your presentations/ projects

	Presentation title - suggestion		Applications of particle physics in medical field (e.g. Positron
1	Why was the Large Hadron Collider built?	9	emission tomography)
2	Achievements and challenges of the Standard Model	10	What is the Data Quality Monitoring good for?
3		11	What is the Grid computing doing for data analysis?
	LHC?	12	Why does the Standard Model have to be extended?
4	How can we accelerate particles (including examples in nature)?	13	From cloud chambers to bubble chambers and the Z boson
5	How can we accelerate particles (including examples in research)?	14	Why some particle physicists are very excited about penguins?
6	How can we detect particles (part I+II)?	,	The energy and precision frontiers of particle physics. Why
7	Why do detectors at CERN look like onions? Introduction to particle identification!	15	do we need both?
8	Detectors: why do they need continuous improvements?	16	Where's all the antimatter? Antimatter studies @CERN



What's next?

https://indico.cern.ch/event/1369306/timetable/



