

CERN@70 Romania Activities : Researchers' Night (27'th of 28'th of September)

CERN70 meeting, 14'th of November 2024

Adam Jinaru - on behalf of NPCs (Anca Ghinescu, Florin Dorian Buzatu)

Researchers' Night: 27'th - 28'th of September 2024

- 23'rd edition in Romania
- Romanian CERN@70 included particle physics and related activities
- experiments involved: ALICE (ISS and IFIN-HH), n_TOF+ISOLDE, DsTau, RD50, WLCG
- 2 days in public places ("Lumea Copiilor" Park (Bucharest) and city center Măgurele)



70 years celebration roll-up in front of the tent

Researchers' Night: sites

- Indico page:

<https://indico.cern.ch/event/1417975/>

- Official site:

<https://scicomtoolbox.ro/activitati/noaptea-cercetatorilor-bucuresti-2024>

- FB Page:

https://www.facebook.com/NoapteaCercetatorilorEuropeni/?locale=ro_RO

**NOAPTEA
CERCETĂTORILOR**

ȘTIINȚA PENTRU
PACE ȘI SECURITATE

BUCUREȘTI

Parcul LUMEA COPIILOR

27 Septembrie 2024
16:00 - 22:00

ReConnect



Proiectul este un proiect finanțat de către UE prin programul HORIZON-MSCA-2020-0102386-01, SA 10101813

CERN projects: ISS@ALICE



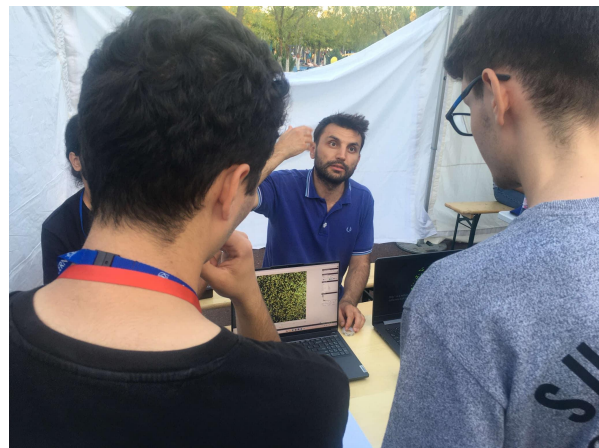
ISS@ALICE specific activities :

1. Detector presentations (quizes, scale model, poster)
2. QGP physics /ALICE detector booklets
3. VR explorations
4. related experiments gifts (badges)



Organizers: Alexandru Dobrin, Andrea Danu, Adrian Sevcenco, Catalin Ristea, Alexandru Manea, Catalina Brandibur, Maria Linc (ISS)

CERN projects: nTOF + ISOLDE



Activities:

1. MiniPIX detectors with computer display
2. background radiation activity qualitative visualizations (e.g. muons)

Visitors: all ages, from 4-5 y.o to seniors, being very curious about the world we live in

About the mini detector:

An affordable device designed for physics classes where students can literally “see” the radiation surrounding us. It is a miniaturized and low-power solution of radiation camera with single particle counting or particle tracking detector Timepix. The standard MiniPIX EDU system incorporates a single Timepix detector (256 x 256 pixels with a pitch of 55 μm) with 300 or 500 μm thick silicon. MiniPIX EDU device is controlled via USB interface. The major operating systems are supported (MS Windows, Mac OS and LINUX). MiniPIX EDU comes with Pixet Basic software, which has limited functionality compared to Pixet Pro. So, it is a Silicon-based charged particle detector (can detect alphas, protons, muons, etc.). Depending on the track left by the charged particle, one can identify what particle it was



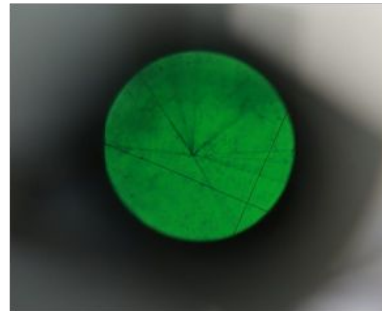
Organizers: Marian Boromiza, Aman Gandhi, Razvan Lica (IFIN-HH)

CERN projects: DsTau(NA65) - Study of Tau Neutrino Production at CERN/SPS



Activities:

- the possibility to see how an emulsion film looks
- posters presenting information about DsTau, and FASER experiments
- images of the hadron-nuclei interactions at high-energy on a display of a computer connected to one of our manual scanning microscope
- interesting discussions about neutrino physics and the two experiments DsTau and FASER



Organizers: Elena Firu (ISS) - thanks for the slide!

CERN projects: NIMP@RD50



NIMP@RD50 scientific contribution:

- Understanding the radiation damage in Silicon sensors at microscopic scale
- Develop defect engineering solutions for increasing the radiation tolerance of the sensors used in particle detection at CERN

Organizers: Ioana Pintilie, Cristina Beşleagă, Andrei Niţescu, Nicoleta Apostol, Ruxandra Costescu (NIMP) - thanks for the slide!

CERN projects: WLCG



Organizers: Ionel Stan (ISS), Mihnea Dulea (IFIN-HH)

Activities:

1. Poster about the GRID
2. A movie about the LHC was a good argument to explain to the public the necessity to store the data and then process them
3. 2 servers used in GRID have been shown
4. A parallel for general public between the components of the servers and the components on their phones
5. Children were genuinely interested and impressed when seeing the computer's components

Science and Technology Summer School: Then and after

In Media: Univ of Bucharest, Agerpres, b365 etc

<https://unibuc.ro/noaptea-cercetatorilor-europeni-2024-evenimente-de-popularizare-a-stiintei-organizate-de-cercetatorii-ub/>

<https://www.agerpres.ro/social/2024/09/27/noaptea-cercetatorilor-evenimente-organizate-in-capitala--1361300>

<https://b365.ro/cei-mici-sunt-asteptati-in-parcul-lumea-copiilor-la-noaptea-cercetatorilor-2024-tema-este-stiinta-pentru-pace-si-securitate-iar-activitatile-tin-pana-diseara-543920/>