



Prof. Stanislav Pakuliak
JINR UC Director

E-mail: pakuliak@jinr.ru

Website: uc.jinr.ru

JINR Day in France
February 15, 2018



PROGRAMMES for students & postgraduates

- Bachelor's, Master's & PhD theses at JINR
- International student practices
- Summer student programme
- Hands-on workshops for future engineers
- Virtual laboratory of nuclear fission
- Practice and training for researchers and engineers

PROGRAMMES for school students

- Interschool physics and mathematics open classroom
- Centre of additional education
PRIMER
- 'NICA Mega-science project' video lesson

PROGRAMMES for physics teachers

- International scientific schools at JINR and CERN
- Videoconferences with schools from JINR Member states

Outreach PROGRAMMES

- Festivals of science
- Days of physics in Dubna
- Visits to the JINR labs
- 3D tours around JINR basic facilities
- Popular lectures on modern science
- JINR museum

Decisions of November 2017 CPP

9. To welcome the decision taken by the Government of the Russian Federation on 23 August 2017, pursuant to which JINR has received the right to confer academic degrees. The Plenipotentiaries should facilitate the procedure of recognition of JINR's degree diplomas in the Member States.

13. To commission the JINR Directorate to organize an open international competition in 2018 for researchers and postgraduates to fill vacancies of positions in JINR's priority scientific projects.

14. To recommend that the JINR Directorate organize a special-purpose grant programme in 2018 to stimulate the participation of scientists of the Member States and other countries in the implementation of the NICA project.

Bachelor's, Master's & PhD theses at JINR

JINR has the departments of the following universities



Казанский
федеральный
УНИВЕРСИТЕТ

SAINT PETERSBURG
STATE UNIVERSITY

We enable students and postgraduates from the Member States Universities to prepare their qualifying papers at JINR



Individual Education Plan

PRODZIEKAN ds. NAUCZANIA
Wydziału Fizyki PW

Katarzyna Rutkowska
dr hab. inż. Katarzyna Rutkowska

Approved
Vice-Dean of the Faculty of Physics
Warsaw University of Technology
Rutkowska K.

Katarzyna Rutkowska
«23» 11 2016r.

Individual Teaching Plan
Autumn semester 2016/2017.

Second-year student of the Faculty of Physics, Warsaw University of Technology
Dąbrowski Daniel



Approved
Director of the JINR University Centre
Pakulyak S. Z. *S. Z. Pakulyak*

«24» 10 2016r.

Course	Examination form (exam/test)	Substitute course	Teacher	Examination form (exam/test)
Physics of nuclei and elementary particles (Fizyka jądra i cząstek elementarnych)	exam	Theory of atomic nuclei and atomic models (Теория атомных ядер и атомные модели)	Jolos R. V.	exam
Laboratory of nuclear physics and technology (Laboratorium fizyki i techniki jądrowej)	test	Methodology of gamma spectroscopy (Методика гамма-спектроскопии)	Sobolev Ju. G.	test
New solutions in nuclear energetics (Nowe rozwiązania w energetyce jądrowej)	exam	Nuclear reactors and nuclear energetics (Атомные реакторы и ядерная энергетика)	Kiselev M. S.	exam
Elective course (Przedmiot obieralny)	test	Vacuum Technology (Вакуумная техника)	Nozdrin M. A.	test
Elective course (Przedmiot obieralny)	test	Accumulation and processing of experimental data in particle physics (Накопление и обработка экспериментальных данных в физике частиц)	Rogachevsky O.V.	test

International Student Practice at JINR



Since 2004

1st STAGE, June

South Africa

2nd STAGE, July

Bulgaria, Czech Republic, Slovakia,
Poland, Romania and Azerbaijan

3rd STAGE, September

Egypt, Belarus, Cuba, Serbia and RSA

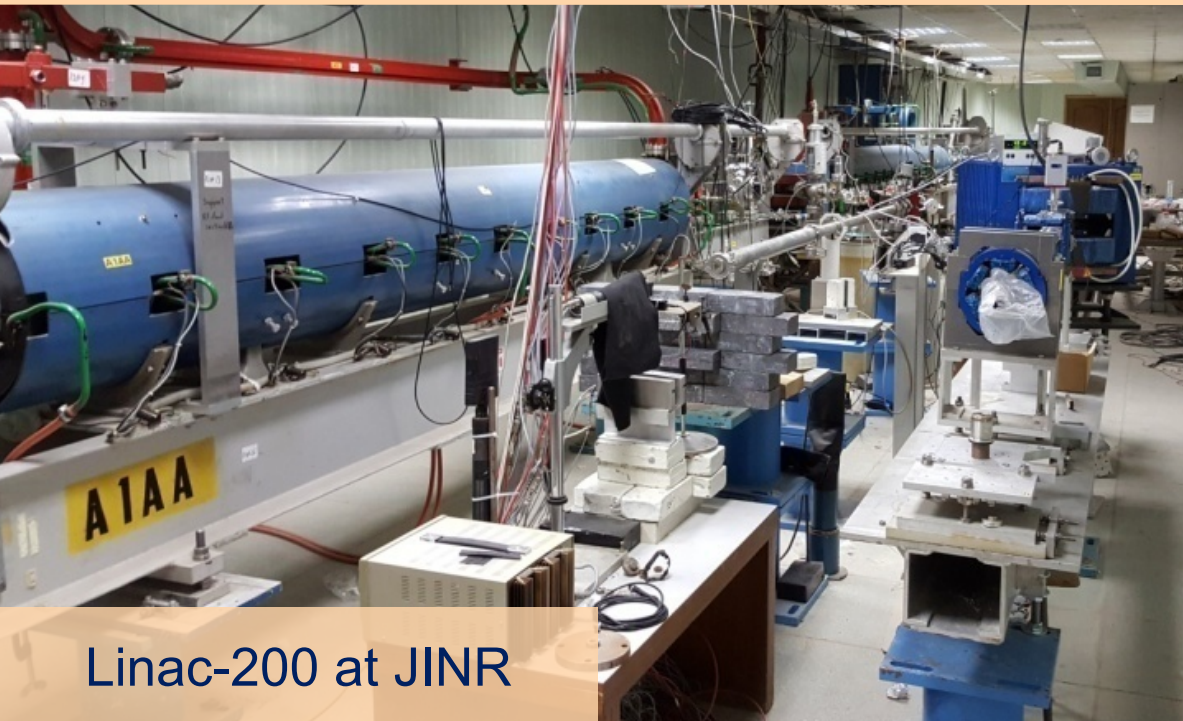
International Student Practice activities

3 weeks

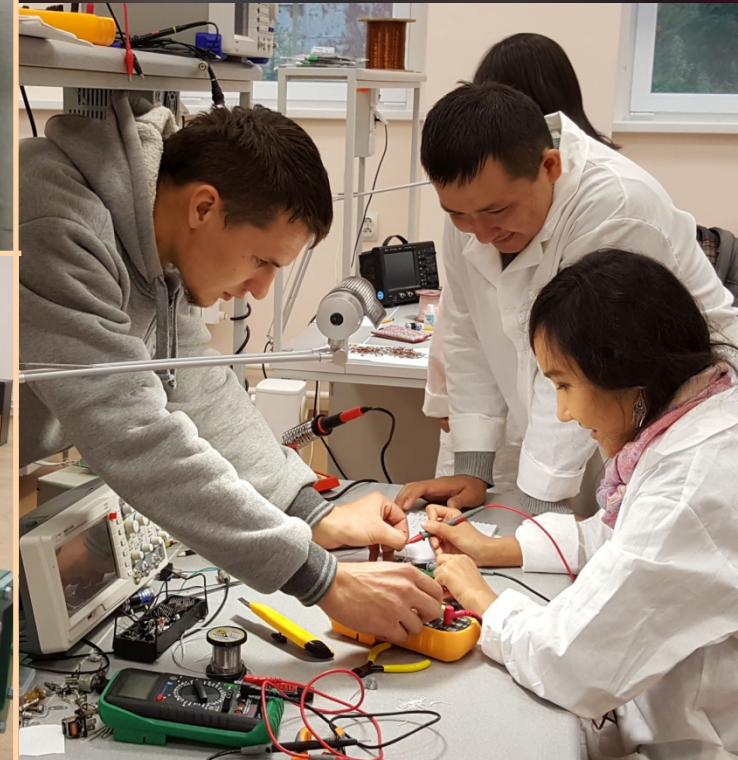
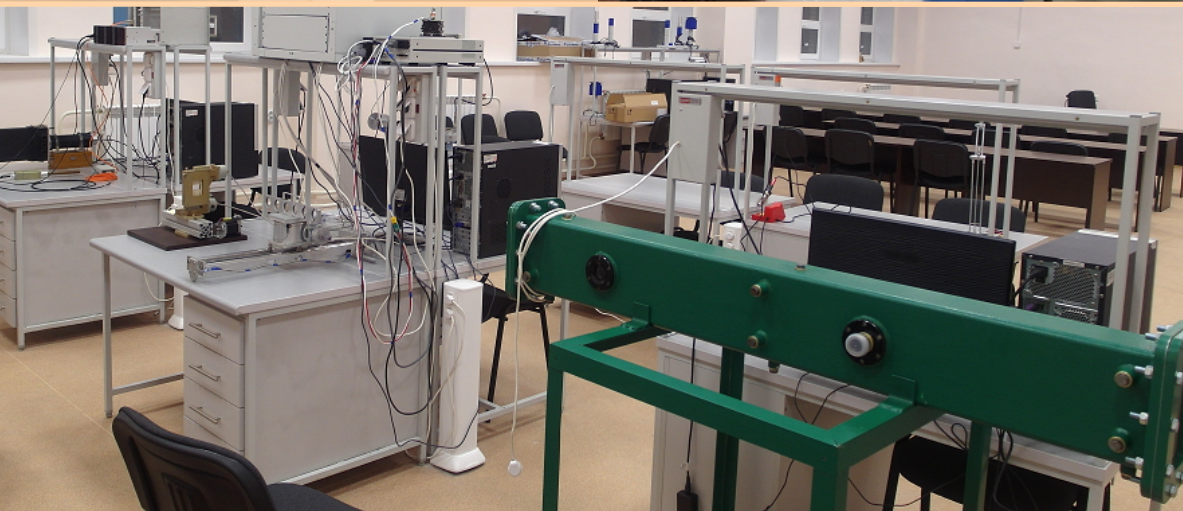
- Introductory lectures
- Visits to the JINR labs
- Work on the projects in international scientific groups
- Social programme
- Final presentation of the projects

Hands-on labworks for engineers

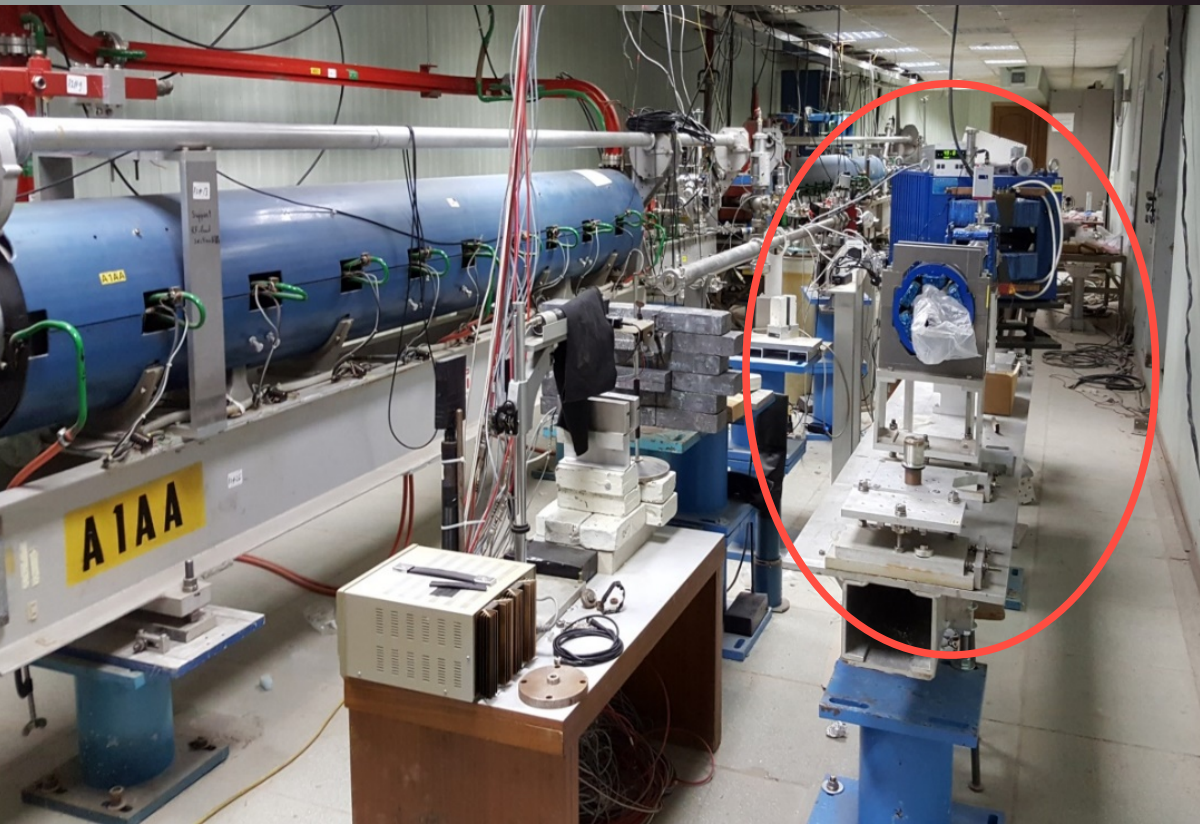
- Basics of nuclear physics
- Radiation protection and safety
- Particle detectors
- Vacuum technology
- Radio frequency technology
- Magnets
- Electronics and automation



Linac-200 at JINR



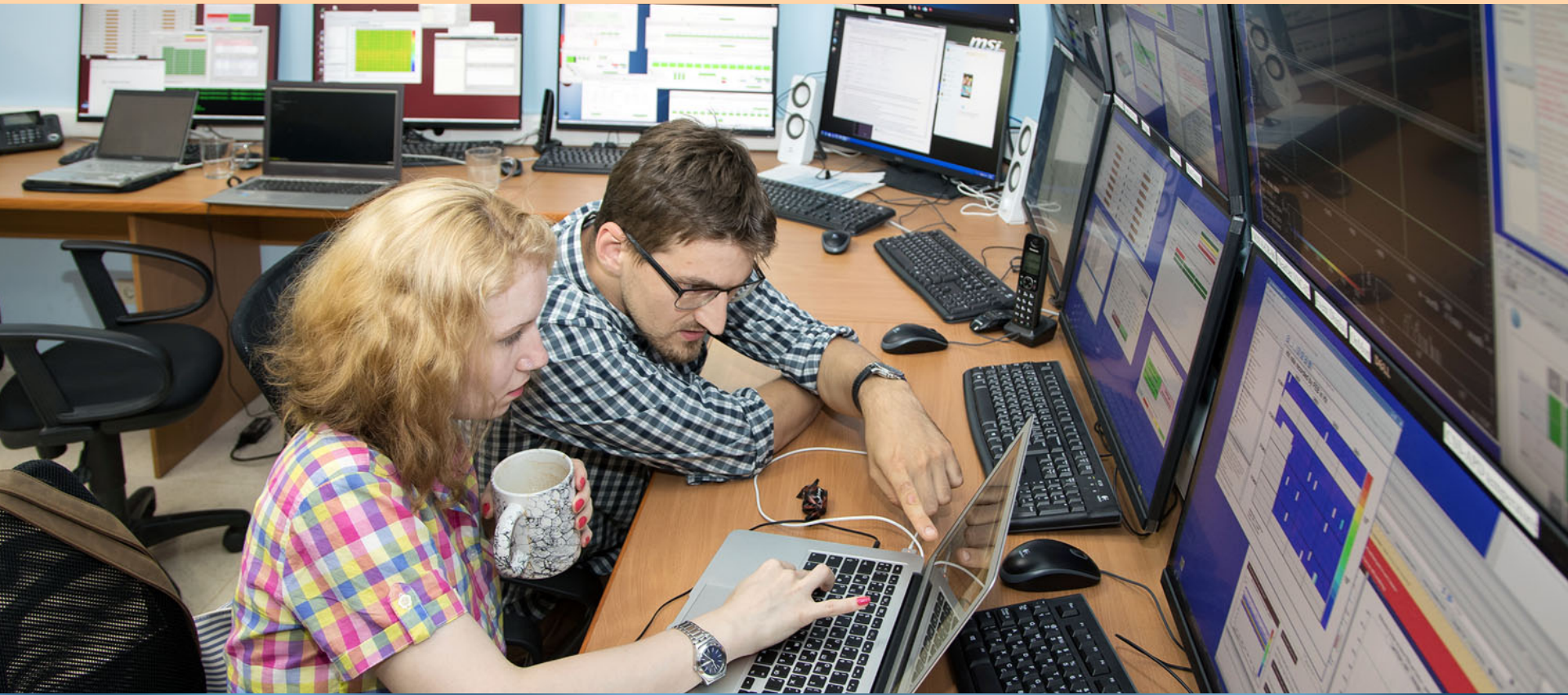
Linac-800 at JINR



- Linac:
240 MeV electrons now,
800 MeV by 2020
Current in bunch 15 μA
- Bunch width 2 μs
- Bunch frequency
10-250 Hz
- Focal spot ~ 1 mm,
can be defocused
up to 20 mm
- 'Training' beam: 22 MeV

Part of refurbished 800 MeV linac MEA from NIKHEF

Summer Student Programme



Summer Student Programme

Launched in 2014

Programme

- Work in international scientific groups
- Duration 6 – 8 weeks

Funding & conditions

- Free accommodation in JINR hostel
- Reimbursement of all travel expenses
- Daily allowance

Participants

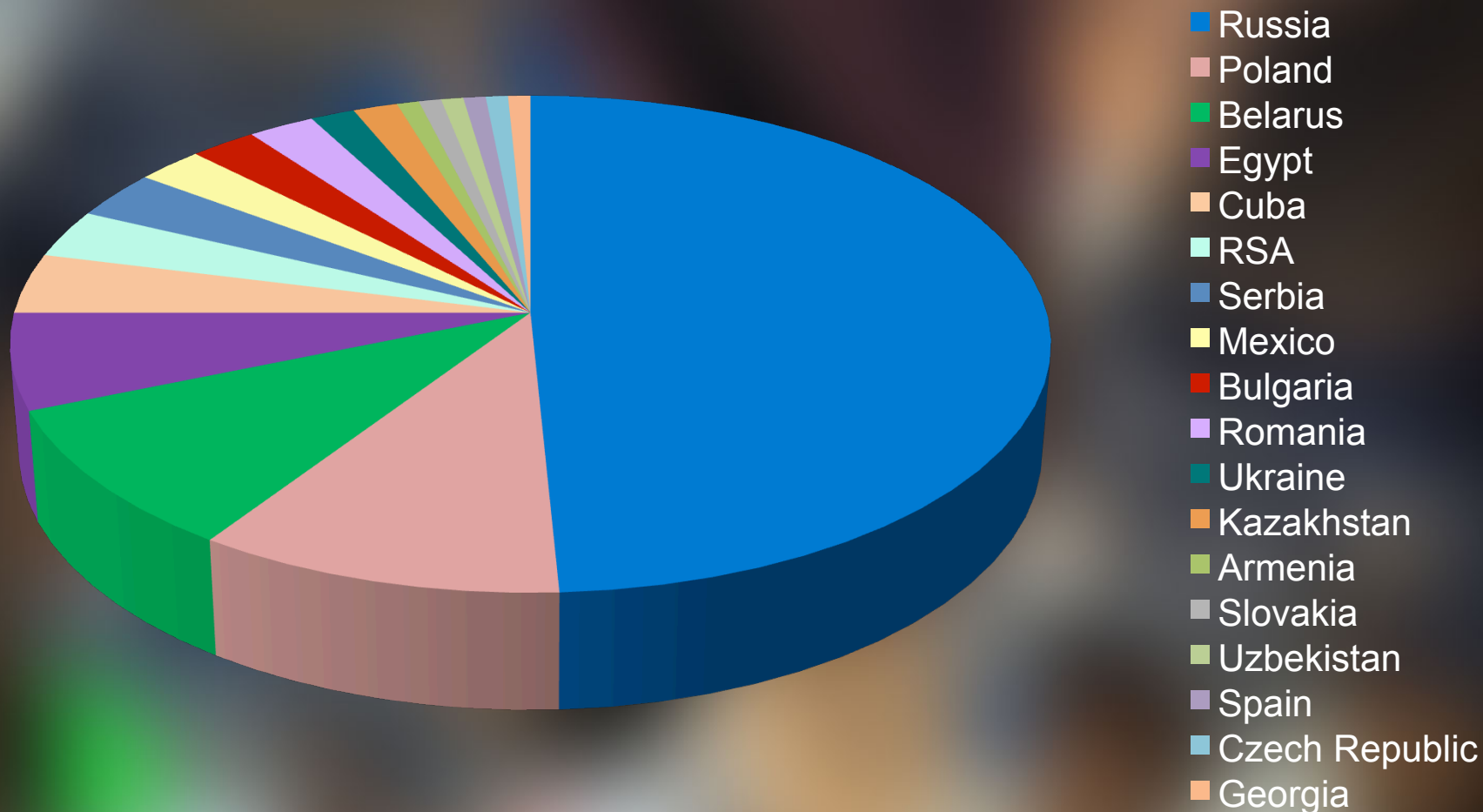
- Bachelor students finishing their 3rd year
- Master students
- PhD students of the 1st year

How to apply

- Fill in the application form on ***students.jinr.ru***
- Highlight the spheres of interest

Application procedure for the JINR SSP-2018 starts in January

JINR SSP participants representation



Total number of participants since 2014 – **128**

Summer Student Programme in 2018

ROBERT Hugo



Title: Mr
Birth date: 04.10.1996
Nationality: France
E-mail: hugo.robert@phelma.grenoble-inp.fr
Phone: 0601440733
Address: France, Grenoble, 20 Rue Anthoard
Zip code: 38000

Languages knowledge

Native language: French
English knowledge level: Feel at home in
Others languages knowledge: Basics of Deutsch

Education

Bachelor: 2016-09-05 -- 2019-09-05
Bachelor degree: name of educational institution: Engineer Degree
Bachelor certificate scan: [Download file](#)
Bachelor evaluation sheet/ Academic record transcript scan: [Download file](#)

Courses and special knowledge

Particle physics: 2
Atomic physics: 2
Nuclear physics: 3
Other relevant courses and computer skills: I've been taking Matlab and C courses for 2 years, and I've been learning Neutronic for 2 semesters
Tell about Your skills in various programming tools such as C++/shell/python languages, database management systems, theory of algorithms and data structures: I've been practicing Python, Matlab and C languages, I got some courses for these languages, and some projects in group or alone.
Have You skills with special data management tools as ROOT, MatLab, etc.: I've been practicing a lot on Matlab, to modelise physics equations.
Tell about courses You have taken on electronics and physical plants and equipment designing including Your skills in special programs for design: I'm currently studying in a Physic school and before that I've done two years of preparatory schools, that gave me an eye on every different aspects of Physics. This year I'm specifically studying Nuclear Physic, Neutronic, Fluidic Mechanic, ..

Outreach programmes



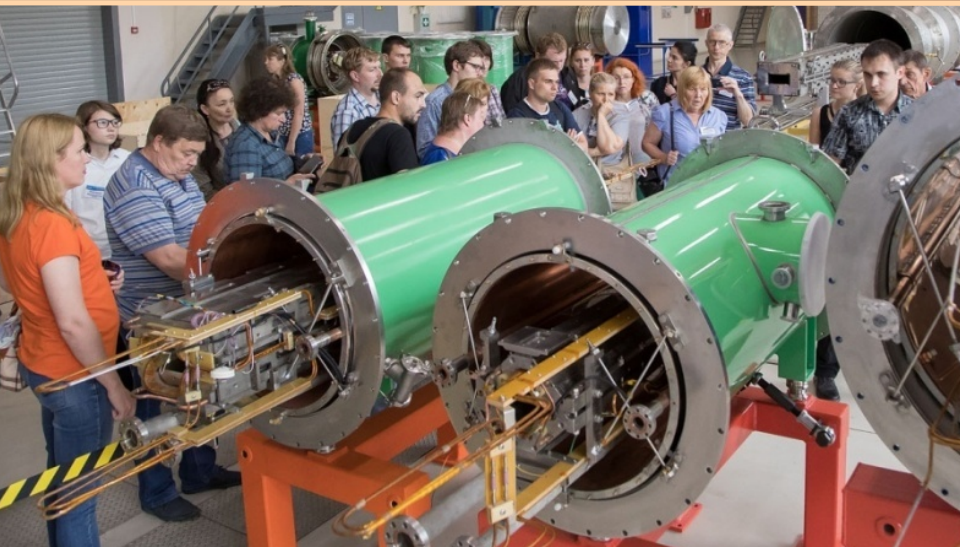
International scientific schools for physics teachers at JINR and CERN

What do we want to achieve?

- Raise and maintain the interest of students in modern science.
- Motivate students to study science and engineering at universities.
- Prepare the future generation of scientists and engineers.
- Show that **Science is alive!**

Basic components:

- Visits to experimental facilities;
- Lectures;
- Hands-on activities;
- Meetings with research physicists;
- Communication with colleagues from different regions.



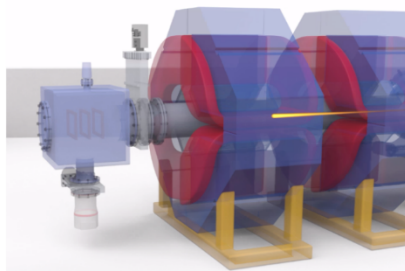


Joint Institute for Nuclear Research

JINR Laboratories



Our Educational Resources



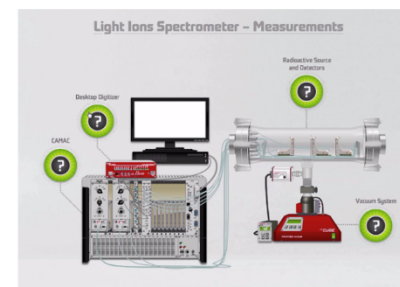
Main Facilities

Multimedia exposition about JINR facilities



NICA – Universe in the Lab

Video lessons for school children about NICA Collider



Virtual Lab

Laboratory for students based on the Light ions Investigation System (LIS)

Download Virtual Laboratory of Nuclear Fission

Interactive Environment for Nuclear Experiment Modeling version for PC. v 1.0

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Navigation

[Home](#)

[Courses](#)



The Interactive Environment for Nuclear Experiment Modeling (further "Setup Builder") is the interactive software with libraries of physical equipment and materials necessary for physical experiment in nuclear physics. This Setup Builder gives an opportunity for students to model and carry out their own nuclear experiments.

For personal use

Free

✓ Personal use

✓ For 1 computer system

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For organization

Free

✓ Use in educational process

✓ For 15 computer systems

[Send request for download](#)

<http://nsse2018.ac.mn/>

International Conference 2018

Modern Trends in Natural Sciences and Advanced Technologies in Science Education

August 20-24, 2018 | Ulaanbaatar, Mongolia

[ONLINE REGISTRATION »](#)



Science brings nations together



Science brings nations together



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Thank you for your attention



Welcome
to JINR

