

JINR Human Capacity Building Programmes

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Outline

- What is JINR UC?
- Student Programmes
- More Opportunities

What is JINR University Centre?



Fields of Activity



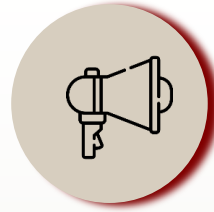
STUDENT programmes

- BS and MS theses at JINR
- International Student Practices
- INTEREST & START
- Conferences for young scientists & specialists



PARTNERSHIP development

- Information Centres
- Cooperation with universities



SCIENCE popularization

- Scientific Schools for science teachers
- Live and virtual visits to the JINR labs
- edu.jinr.ru
- Science festivals & more



SKILL improvement

- Advanced practices
- Attachment of degree-seekers
- Engineering training
- Professional course
- Foreign language courses

Our Goals

- ◆ To train highly qualified scientists and engineers from the JINR Member States
- ◆ To bring up-to-date scientific knowledge to the general public and to highlight recent scientific achievements of JINR
- ◆ To ensure the effective use of JINR facilities and expertise

Start Your Career at JINR



- World-class scientific research
- Wide range of research areas
- Qualified supervision
- International collaboration & useful contacts
- Variety of training programmes

Student Internships and Preparation of Bachelor's, Master's, and PhD Theses at JINR

on Science, Engineering & IT



How to get an internship?

- Conclude an agreement between JINR and interested organization.
- Establish contacts with the relevant departments at JINR and agree on supervision
- Agree on funding conditions
- Come to Dubna

Dissertation councils at JINR

authorized to independently confer academic degrees

- DC for Particle Physics (under the VBLHEP)
- DC for Heavy Ion Physics (under the FLNR)
- DC for Nuclear Physics (under the DLNP)
- DC for Condensed Matter Physics (under the FLNP)
- DC for Information Technologies and Computational Physics (Under the LIT)
- DC for Theoretical Physics (under the BLTP) is ad-hoc council established for each submitted dissertation uniquely

Since 1 September 2019



<https://dissertations.jinr.ru>



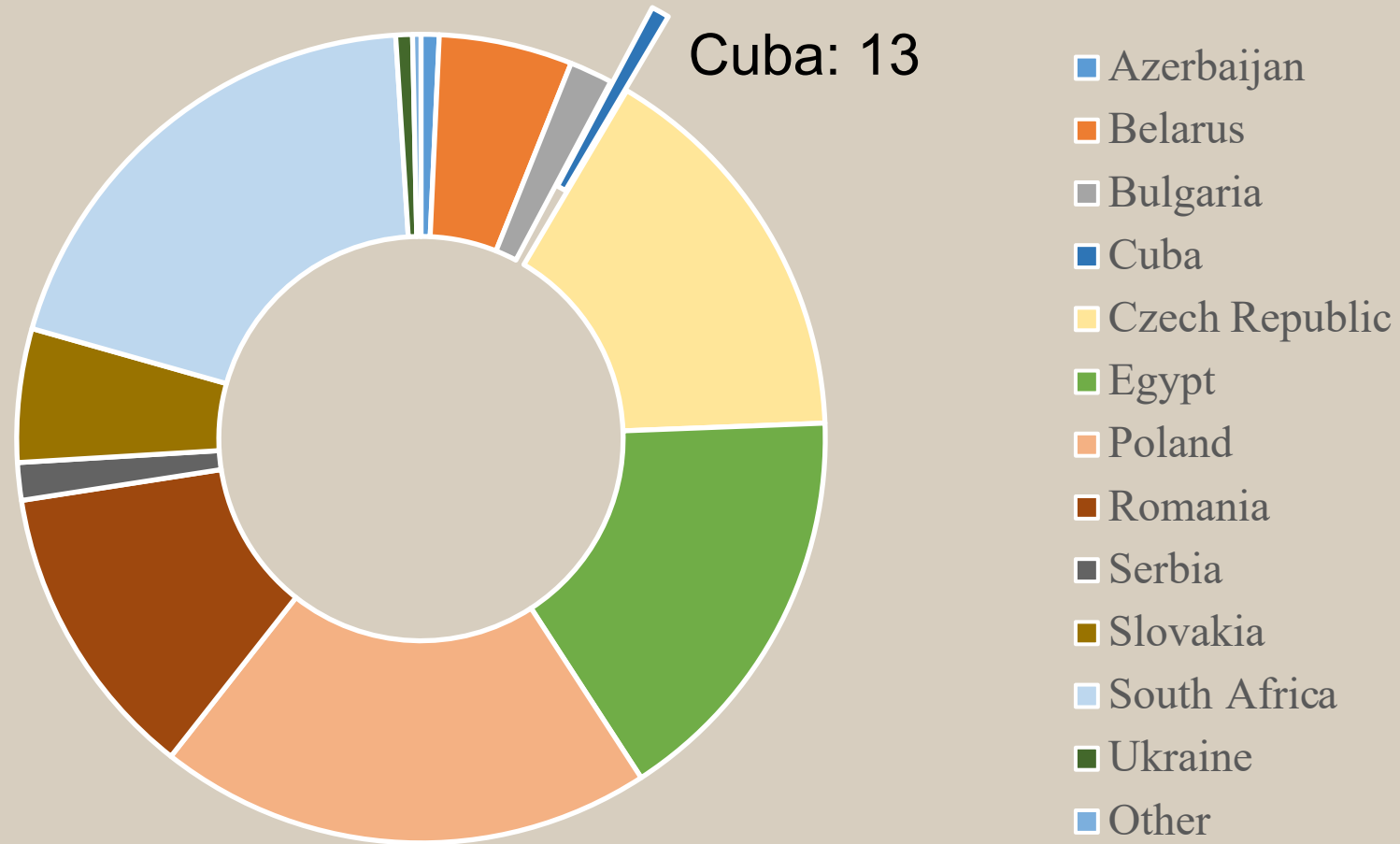
STUDENT PROGRAMMES

International Student Practice (ISP)



- Application through national representatives
- 3 weeks at JINR
- Introductory lectures and visits to the JINR Labs
- Work on research projects & final reports presentation
- Social programme
- 1800 participants from 16 countries since 2004

Practice Participants Representation



Total number of participants since 2004 – 1800

INTEREST

INTERNATIONAL REMOTE Student Training at JINR

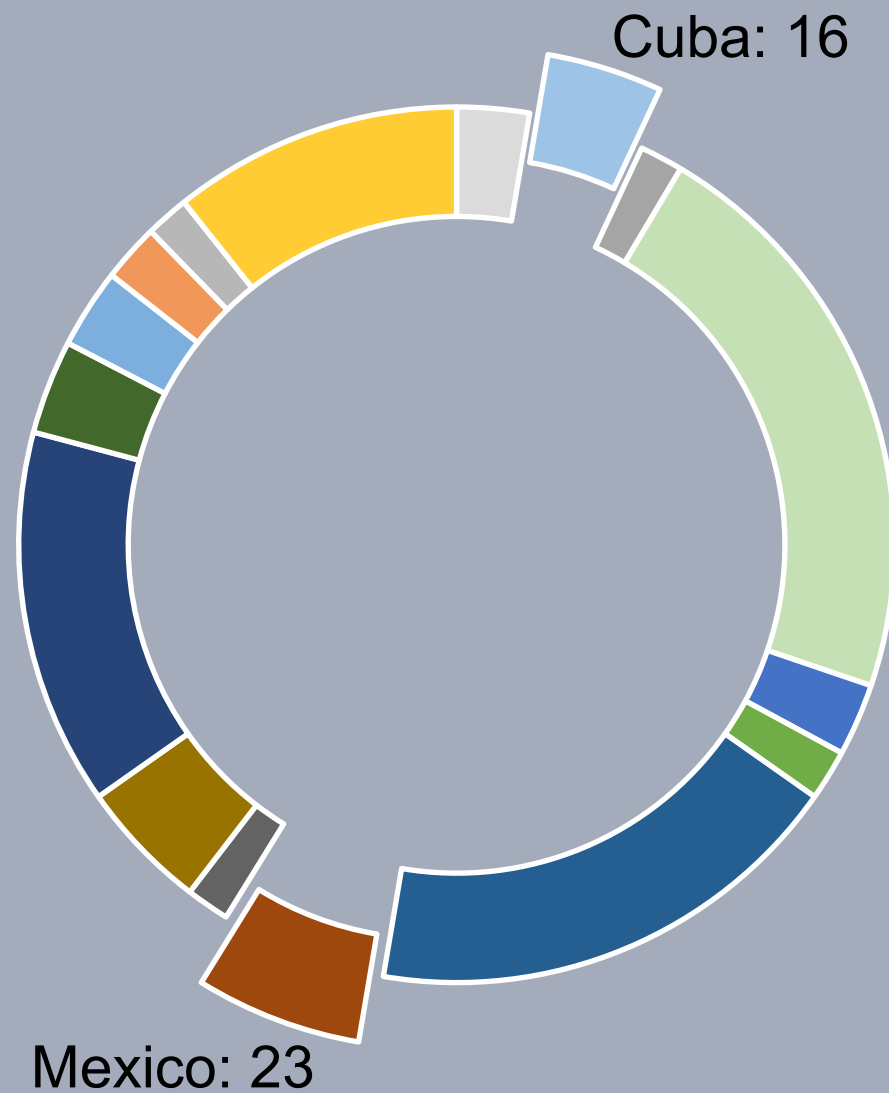


- Launched in October, 2020
- **Online** format
- For science/engineering/IT students and postgraduates from all over the world
- Runs in Waves, each Wave lasts for 4-6 weeks
- Working language – English
- Wave 11: application in Autumn 2024

interest.jinr.ru

INTERESTing Statistics

Total number of participants in ten Waves– **374**



INTEREST

APPLICATION TIPS

1

Register on interest.jinr.ru

Click the **+Student** button.

Fill in the registration form, attach the required documents.

Wait for your account to be approved by the INTEREST Team.

2

Apply for a Wave

Choose a Wave.

Select one or several projects that fit your field of interest.

Read the project description and skill requirements.

Fill in the motivation box and press APPLY.

3

Get selected

Wait for the selection results.

Project supervisors get acquainted with the applications, select students with whom they would like to work during the Wave.

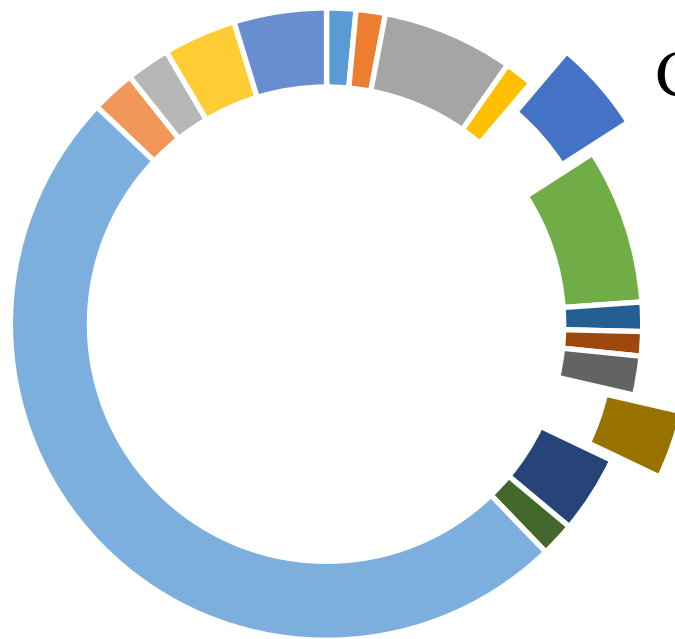
START

STudent Advanced Research Training

- For 4th year Bachelor students, Master students, 1st year PhDs
- Selection by JINR project supervisors
- Longer term (6-8 weeks)
- 2 sessions per year (Summer and Winter Session)
- Advanced level of projects
- 402 participants from 28 countries since 2014

Apply for the Summer Session till 28th March on start.jinr.ru

START Participants

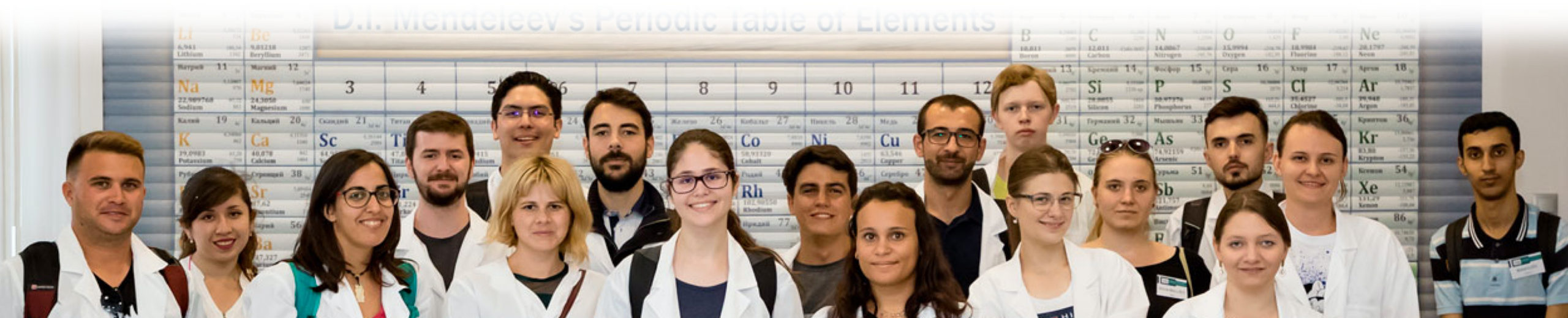


Cuba: 19

Mexico: 14

- Armenia
- Azerbaijan
- Belarus
- Bulgaria
- Cuba
- Egypt
- India
- Italy
- Kazakhstan
- Mexico
- Poland
- Romania
- Russia
- Serbia
- Ukraine
- Uzbekistan
- Other

start.jinr.ru



1

Register on start.jinr.ru

Click the **+Student** button.

Fill in the registration form, attach the required documents.

Wait for your account to be approved by the START Team.

2

Apply for a Session

Check out the requirements for applicants.

Select a Session, press APPLY.

Tick 1 or 2 of the available scientific fields corresponding to your sphere of studies.

3

Get selected

Wait for the selection results.

Project supervisors get acquainted with the applications, select students with whom they would like to work during the Session.

Summary: JINR Student Programmes

ISP

START

INTEREST

Period

As agreed with national representatives

Winter: February - June
Summer: July - November

All-year, in Waves

Participants from

JINR Member states

All countries

All countries

Duration

3 weeks

6-8 weeks

4-6 weeks

Key idea

Introduction to JINR research fields

More profound research at JINR

Online research under supervision of JINR scientists

Selection by

National representatives

JINR project supervisors

JINR project supervisors

Students choose

Projects from the uc.jinr.ru/en/project-database

Scientific fields

Projects from the current Wave page interest.jinr.ru

Reports

Oral presentations of projects

Final written reports on start.jinr.ru

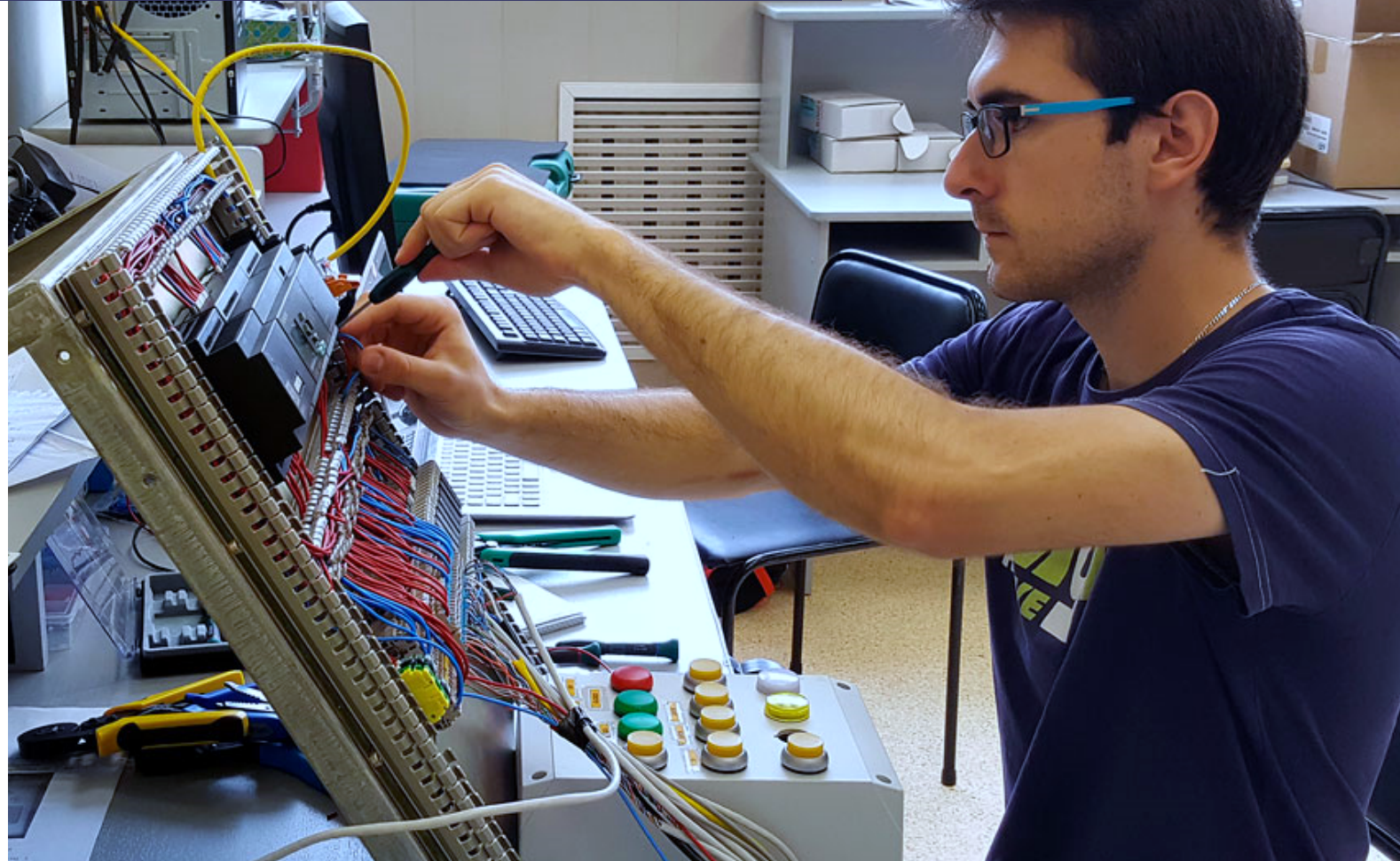
Final written reports published on the current Wave page



MORE OPPORTUNITIES

Hands-on Engineering Training

- Electronics & Automation
- Basics of Nuclear Physics
- Radiation Protection & Safety
- Particle Detectors
- Vacuum Technology
- RF Technology
- Magnets

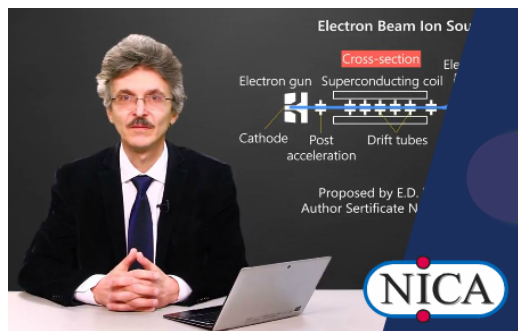


Also available as a project in **ISP** and **START**

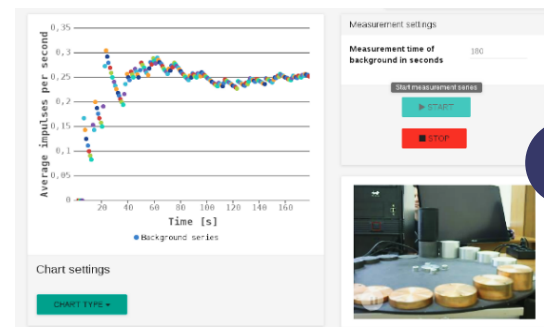
Open Information & Educational Environment



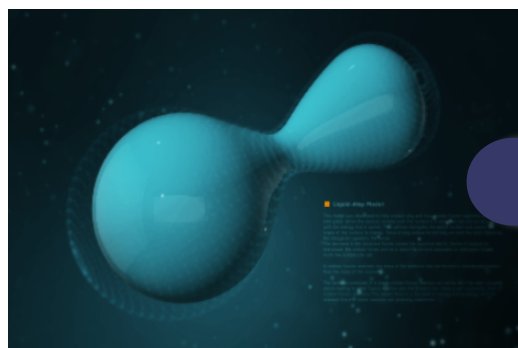
edu.jinr.ru



Video lecture courses



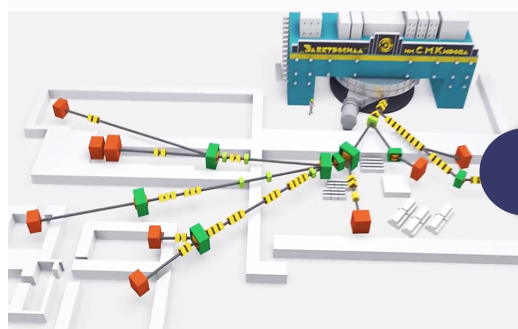
Remote practicums on nuclear physics



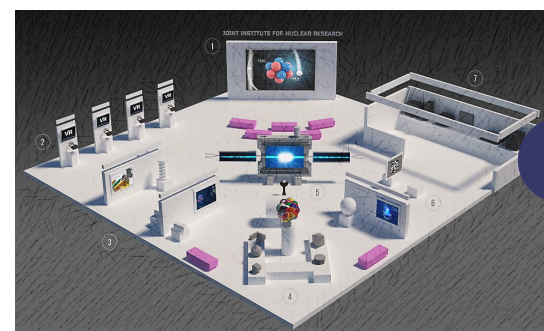
Virtual Laboratory for nuclear physics



Hands-on practicum



Multimedia educational resources



JINR Expositions

Annual Conferences for young scientists and specialists in Dubna and Alushta



Organised by the JINR Association of Young Scientists and Specialists

International Scientific Conference of Young Scientists and Specialists (AYSS-2023)



Joint Institute for Nuclear Research | Dubna

The XXVII International Scientific Conference of Young Scientists and Specialists

Devoted to the 110th anniversary of Bruno Pontecorvo

AYSS 2023

30.10–3.11

- Theoretical Physics
- Mathematical Modeling and Computational Physics
- High Energy Physics
- Particle Accelerators and Nuclear Reactors
- Experimental Nuclear Physics
- Information Technology
- Condensed Matter Physics
- Applied Research
- Life Science



- AYSS-2024: 28 October – 1 November 2024 in Dubna
- Lectures on the main areas of JINR research
- Oral and poster presentations by participants
- Publication of conference proceedings in peer-reviewed journals

ayss-2023.jinr.ru

USEFUL Contacts & Links

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START Programme start.jinr.ru

INTEREST Programme interest.jinr.ru

AYSS Conference ayss-2023.jinr.ru

Follow us on <https://t.me/jinrofficial>





Welcome to JINR!