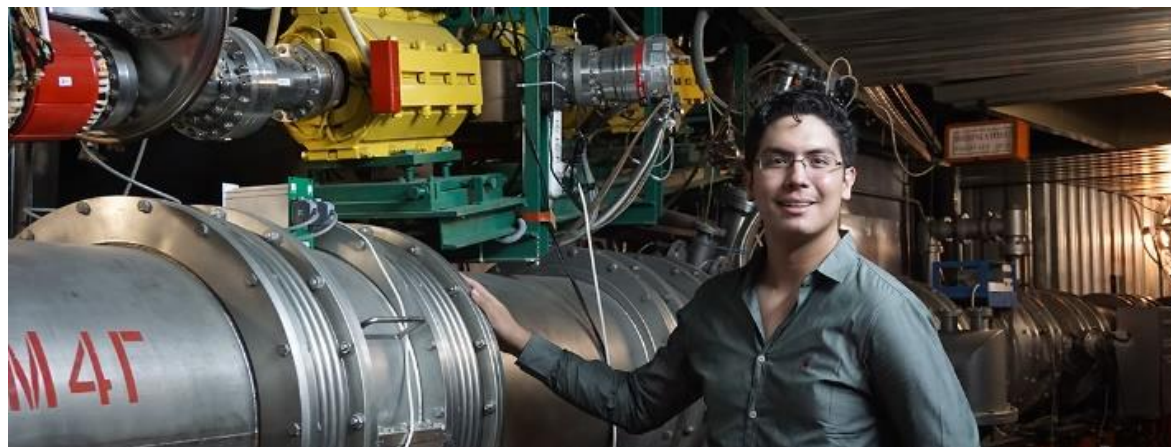


opportunities for students at JINR

Prof. Stanislav Pakuliak
JINR UC Director

E-mail: pakuliak@jinr.ru

Websites: uc.jinr.ru



World-class
research projects

Unique
opportunities
for training



Variety
of student
programmes



Wide range
of research fields



OUTLINE

What is JINR University Centre?

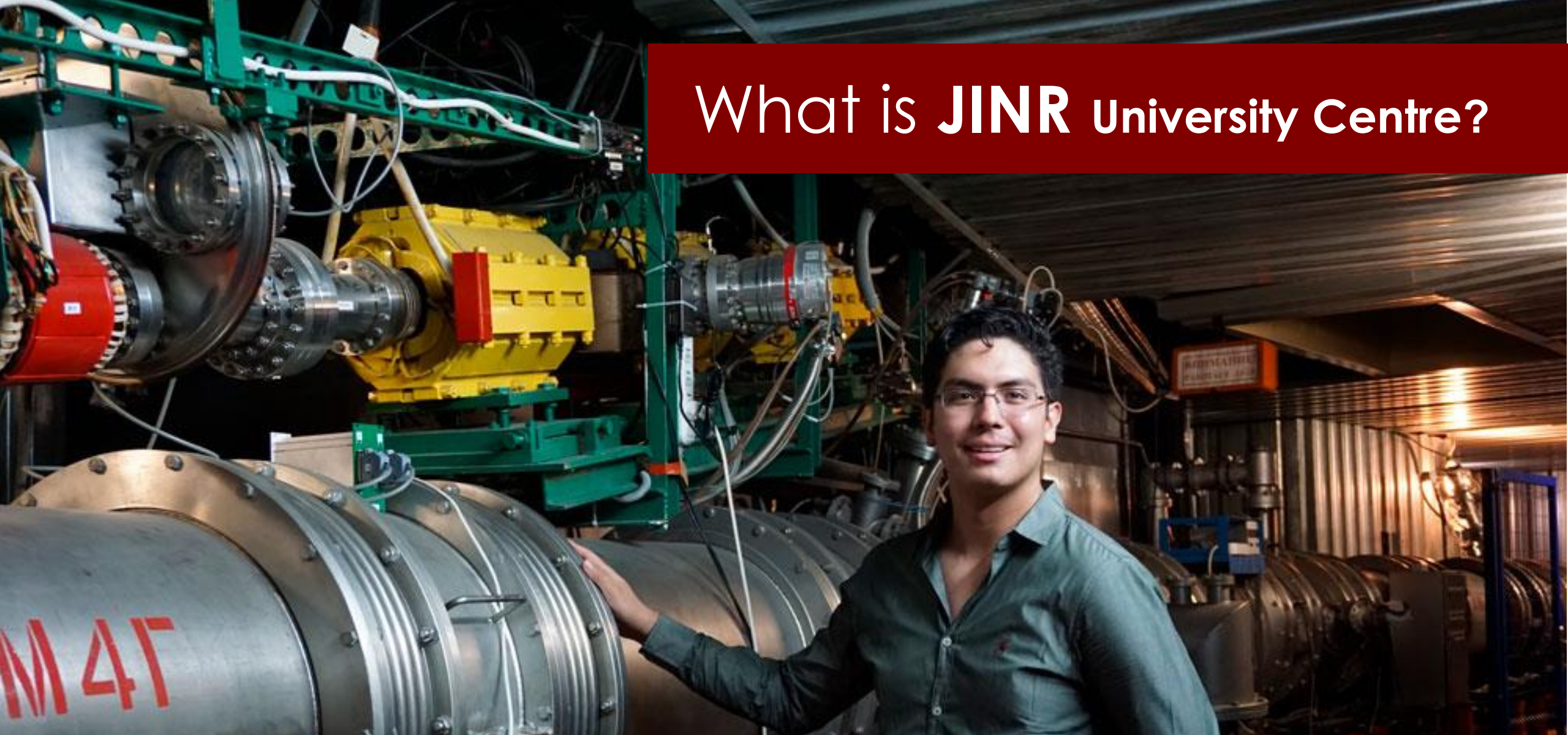
Our student programmes

INTERESTing statistics

Other opportunities



What is JINR University Centre?



Attracting youth to science



Our main fields of activity are:



uc.jinr.ru

To ensure the effective use of JINR facilities and expertise

To train highly qualified scientists and engineers from the Member States

Student programmes

- BSc and MSc theses at JINR
- INTEREST – online student training **NEW**
- International Student Practices
- Summer Student Programme
- Conferences for young scientists and specialists

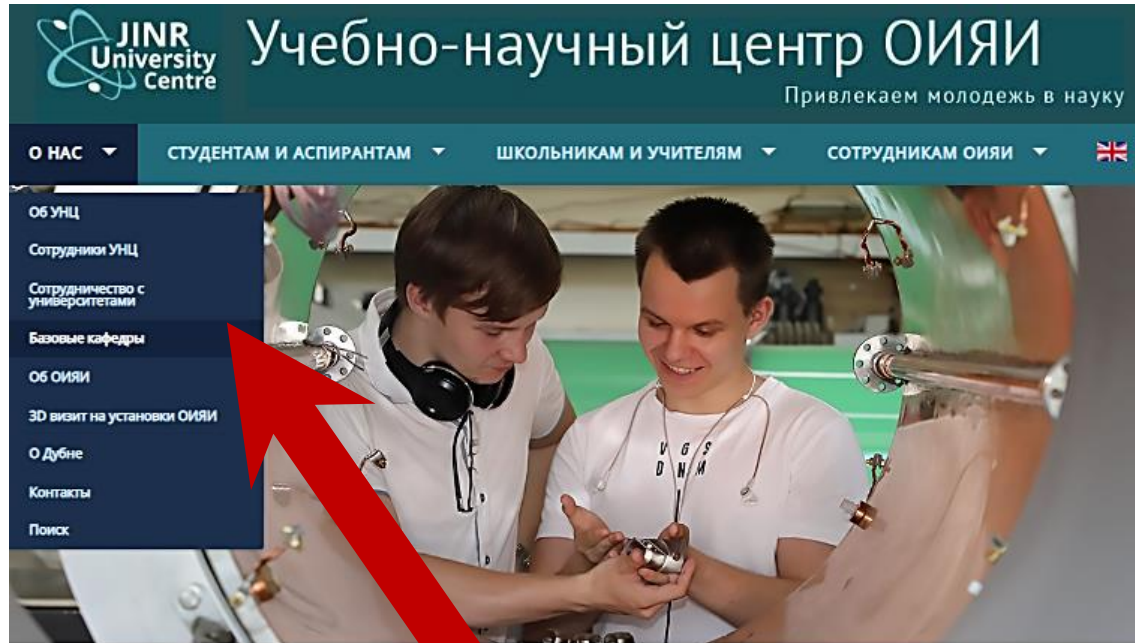
Science popularisation

- Scientific Schools for Physics Teachers at JINR and CERN
- Visits to the JINR labs for students
- E-learning resource edu.jinr.ru
- Science festivals

Skill improvement

- Attachment of degree-seekers
- Trainings for engineers
- Trainings for technical personnel
- Foreign language courses

To bring up-to-date scientific knowledge to the general public and to highlight recent scientific achievements of JINR



Базовые кафедры в ОИЯИ

ОИЯИ является базой по подготовке физиков для многих известных вузов РФ. Эта подготовка охватывает специализацию в ядерной физике, физике элементарных частиц, физике конденсированных сред, теоретической физике, технической физике и радиобиологии. Учебно-научный центр создает и координирует единый образовательный процесс для данных кафедр с целью подготовки высококвалифицированных кадров для ОИЯИ и стран-участниц ОИЯИ. Для этого УНЦ привлекает к образовательной деятельности ведущих сотрудников Института, помогает в организации научной работы старшекурсников в исследовательских коллективах Института. Учебные планы кафедр дополняются спецкурсами в соответствии с направлениями научных исследований ОИЯИ, как базового научно-исследовательского института. УНЦ осуществляет также целевую подготовку студентов из стран-участниц.

В настоящий момент на базе ОИЯИ действуют следующие кафедры:

- Казанский (Приволжский) федеральный университет К(П)ФУ:

"Ядерно-физическое материаловедение" (зав. кафедрой д.ф.-м.н. А.В.Белушкин)

- Московский государственный университет им. М.В. Ломоносова МГУ:

"Физика элементарных частиц" (зав. кафедрой академик РАН В.А. Матвеев)

"Нейтронография" (зав. кафедрой член-корр. РАН, проф. В.Л. Аксенов)

- Национальный исследовательский ядерный университет МИФИ:

"Экспериментальные методы ядерной физики" (зав. кафедрой академик РАН В.А. Матвеев)

- Московский физико-технический институт МФТИ:

"Фундаментальные и прикладные проблемы физики микромира" (зав. кафедрой член-корр. РАН, проф. Д.И. Казаков)

- Санкт-Петербургский государственный университет:

"Ядерные технологии" (зав. кафедрой к.ф.-м.н. А.О. Сидорин)

JINR-based departments



**Казанский
федеральный
УНИВЕРСИТЕТ**



Saint Petersburg
state university

Bachelor, Master, and PhD theses
at JINR

International Student Practices

Highlights:

- 3 weeks
- launched in **2004**
- over **2000** participants

Your chance to:

- get an idea about the JINR fields of research
- work at the basic facilities of the Institute under supervision of the leading experts
- choose a future scientific supervisor
- make useful contacts
- enjoy the Russian culture



June

South Africa

July

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

September

Belarus, Cuba, Egypt,
Mongolia, and Serbia

(Summer) Student Programme

Launched in **2014**

- competitive selection
- longer term (6-8 weeks)
- advanced level of projects
- 4th year BSc students,
MSc students,
1st year PhD students

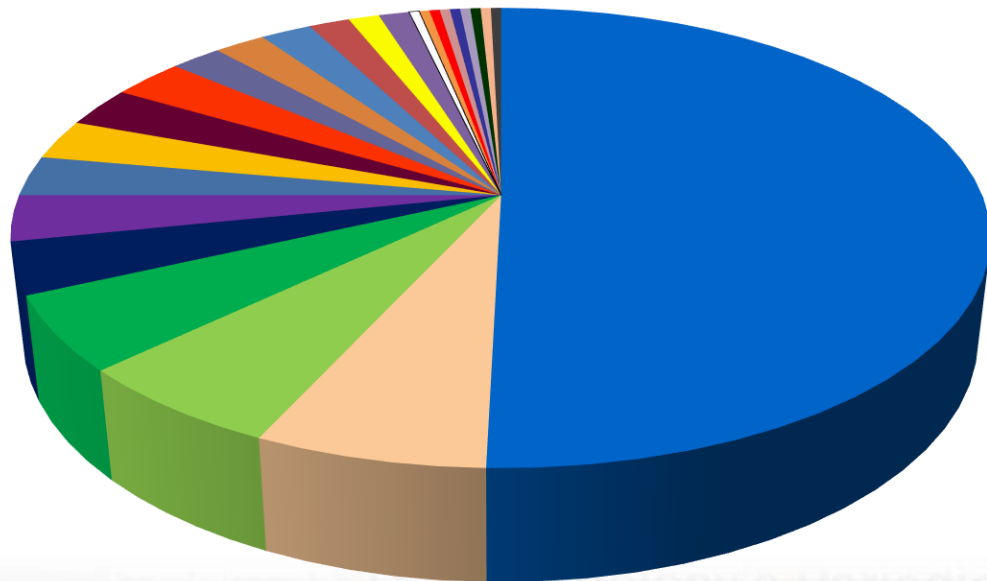
students.jinr.ru



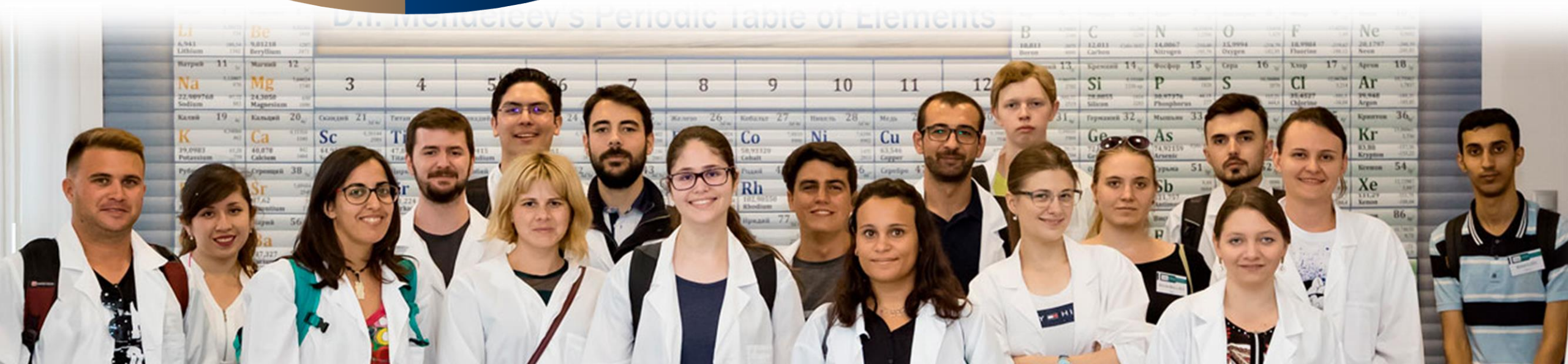
Application for the JINR SSP-2021 starts in May

Summer Student Programme

Total number of participants 2014-2019 – **248**



- | | | |
|---------------|------------------|------------|
| ■ Russia | ■ Poland | ■ Belarus |
| ■ Egypt | ■ Cuba | ■ Romania |
| ■ Kazakhstan | ■ Uzbekistan | ■ Mexico |
| ■ Serbia | ■ Bulgaria | ■ Ukraine |
| ■ Italy | ■ South Africa | ■ Slovakia |
| ■ Brazil | ■ Czech Republic | ■ Spain |
| ■ Armenia | ■ Georgia | ■ China |
| ■ Germany | ■ Azerbaijan | ■ Chile |
| ■ Netherlands | | |



INTEREST

INTERNational REMote Student Training at JINR

- ONLINE programme
- launched in 2020
- runs in Waves, duration 4-6 weeks
- competitive selection
- database of projects
- for science / engineering / IT students starting from their 2nd year and postgraduates

interest.jinr.ru

INTERESTing statistics

Wave 1

24 participants from

9 countries: Cuba, Czech Republic, Egypt, France, India, Poland, Romania, Russia, and Uzbekistan

Wave 2

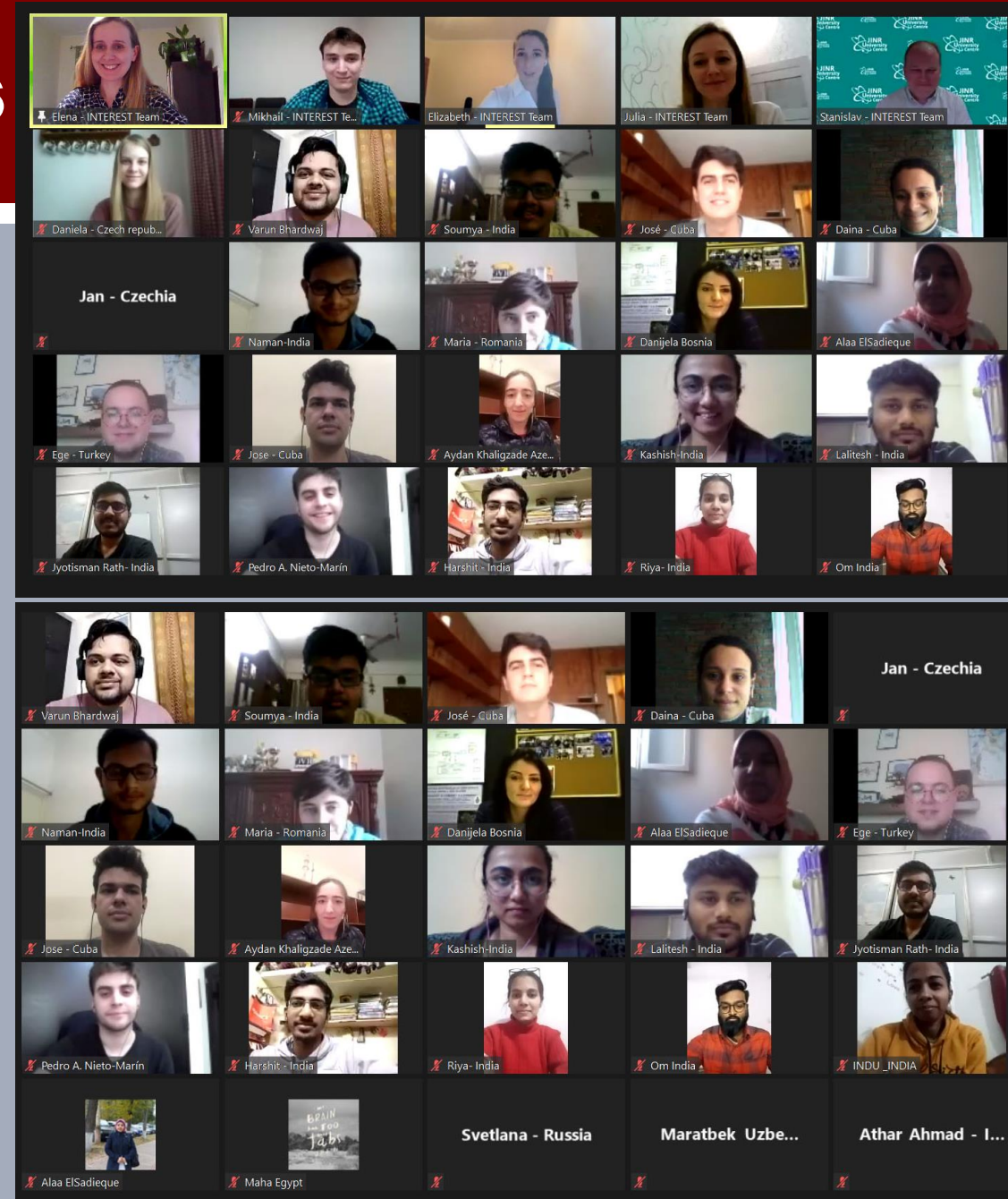
26 participants from

12 countries: Belarus, Brazil, China, Egypt, India, Mexico, Poland, Romania, Russia, Ukraine, United Kingdom, and Uzbekistan

Wave 3

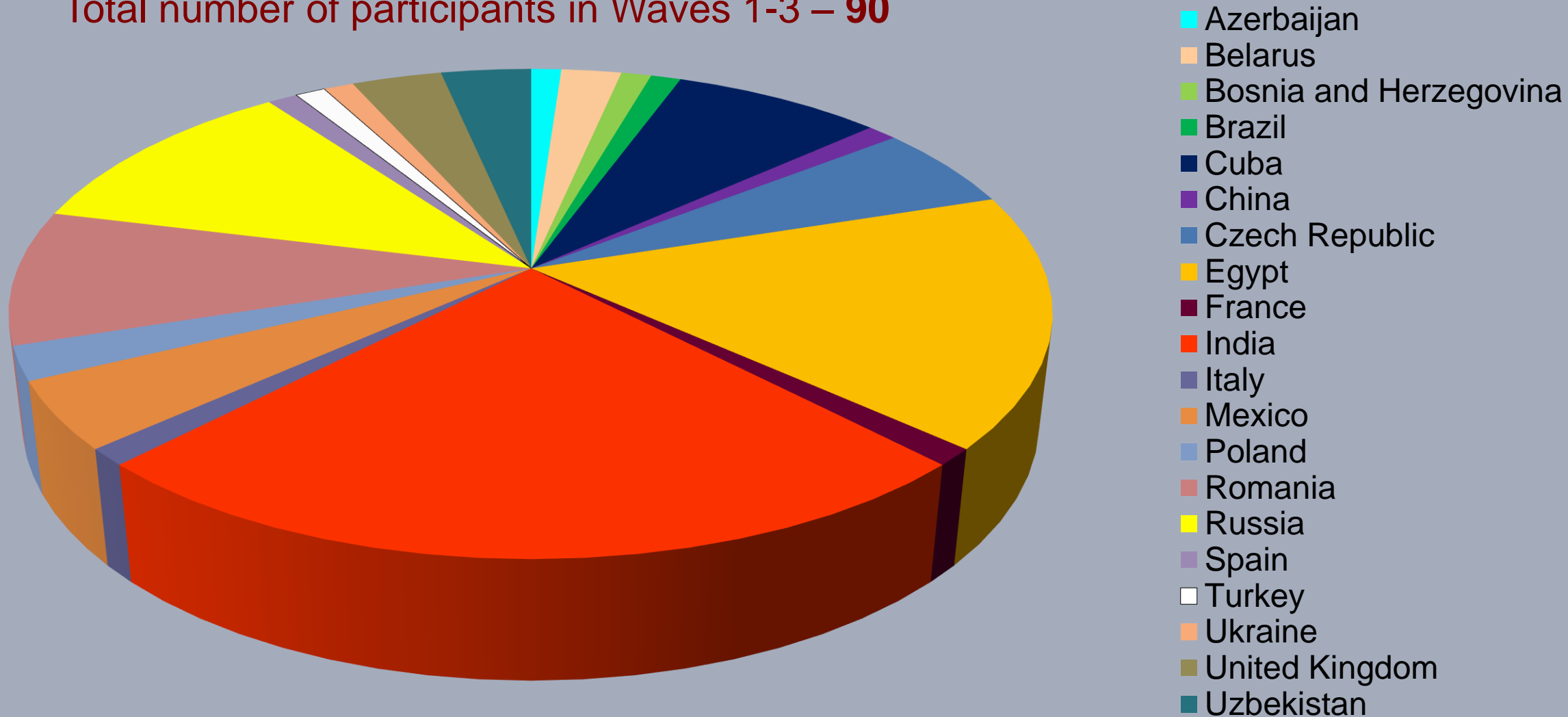
46 participants from

14 countries: Azerbaijan, Belarus, Bosnia & Herzegovina, Cuba, Czech Republic, Egypt, India, Italy, Mexico, Romania, Russia, Spain, Turkey, and Uzbekistan



INTERESTing statistics

Total number of participants in Waves 1-3 – 90



Annual conferences for young scientists & specialists



Organised by the JINR Association of
Young Scientists and Specialists (AYSS)

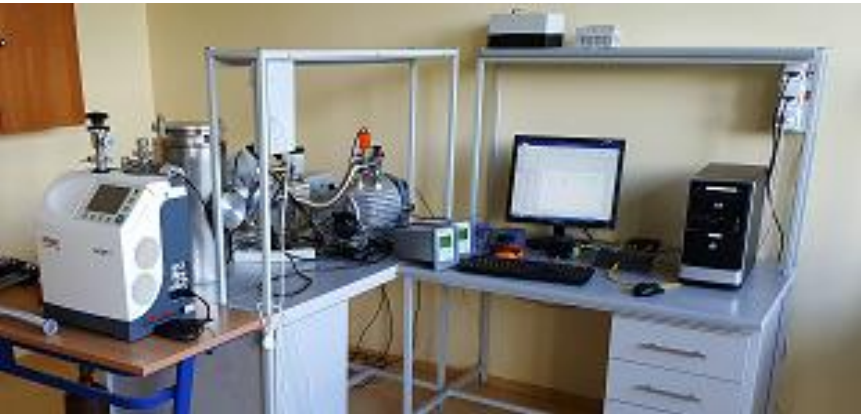


In Dubna
and Alushta



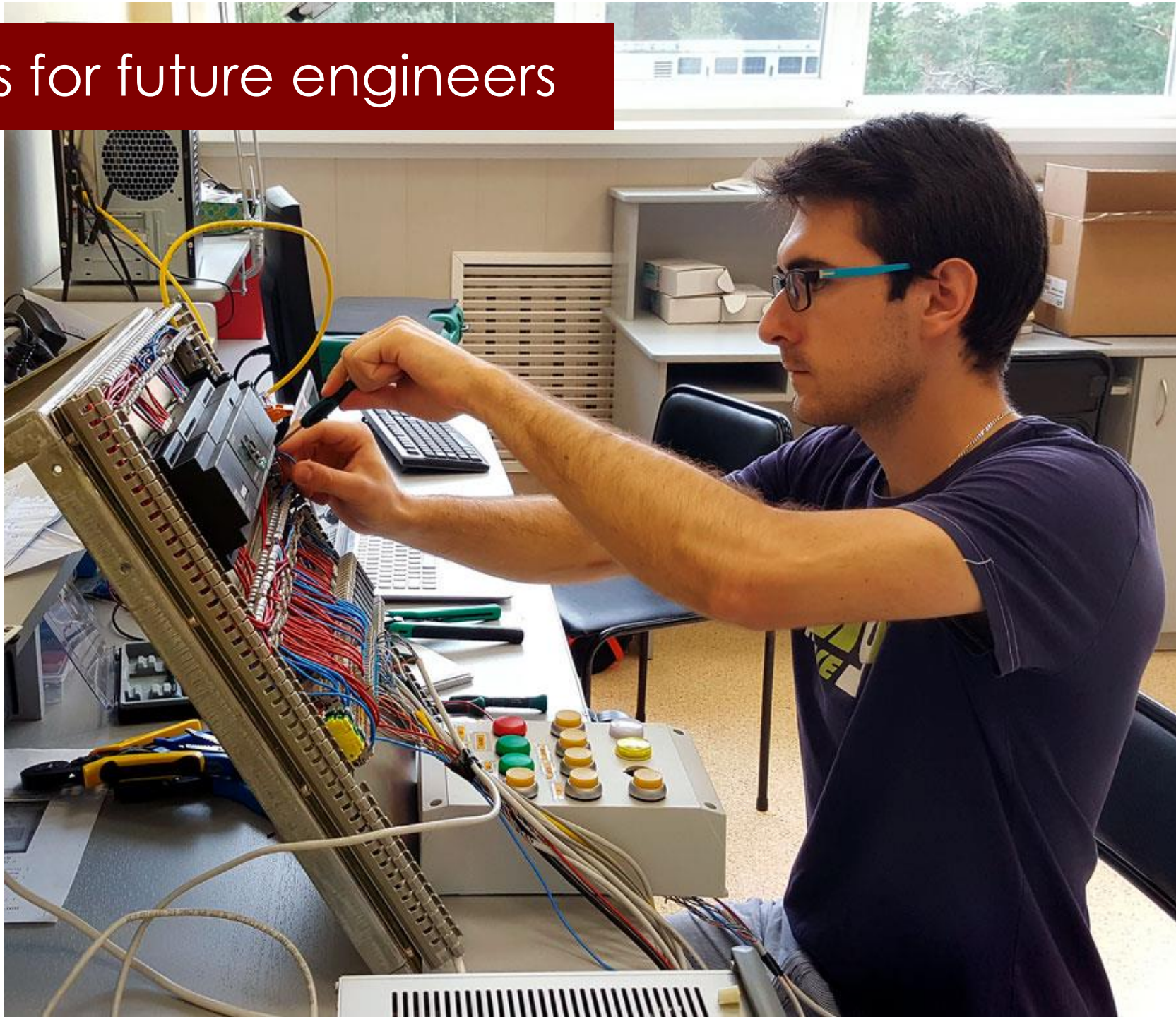
Hands-on workshops for future engineers

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



Main directions:

- Development of training programmes
- Acquisition of practical skills
- Enhanced training



Engineering training

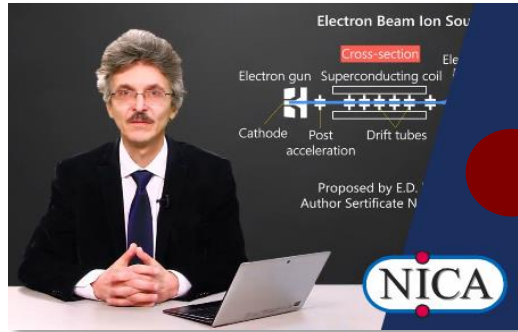
Linac-200 Training Section



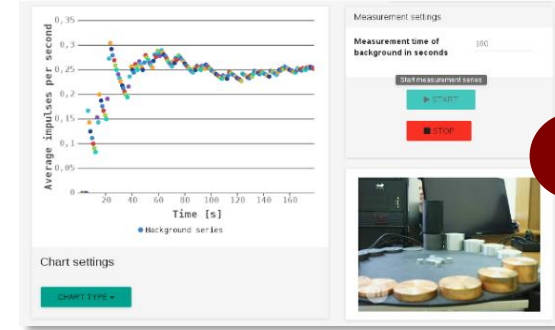
- Accelerator operation and beam diagnostics
- Detector characterization using particle beams
- and more

Open information and educational environment

for supporting fundamental and applied multidisciplinary research at JINR



**Online courses for the
JINR Educational Portal**



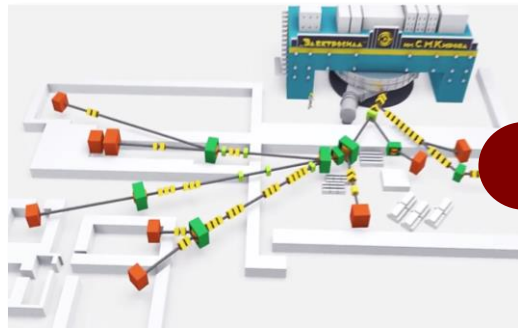
**Remote lab works
on nuclear physics**



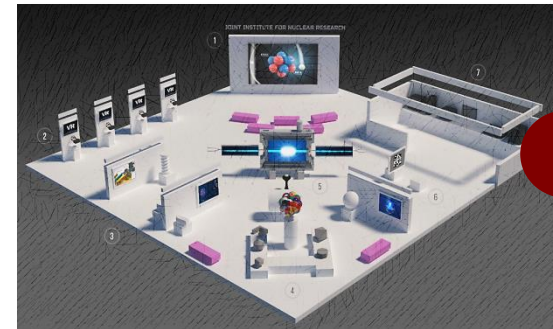
**Virtual Laboratory
for nuclear physics**



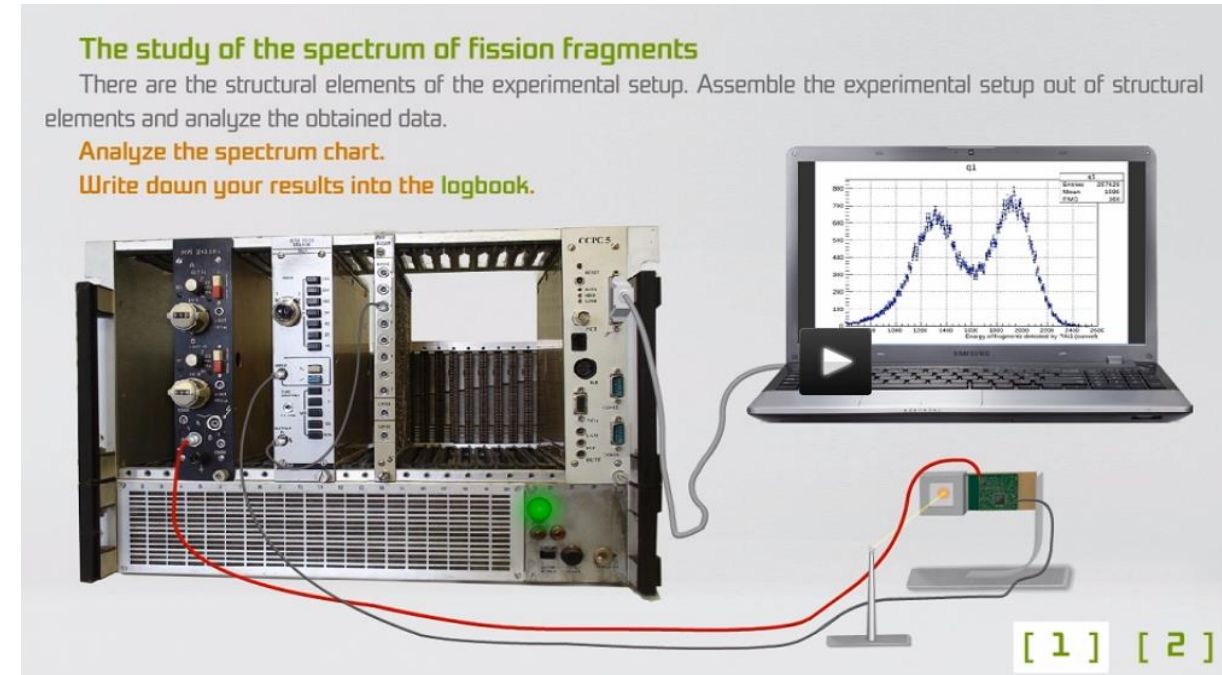
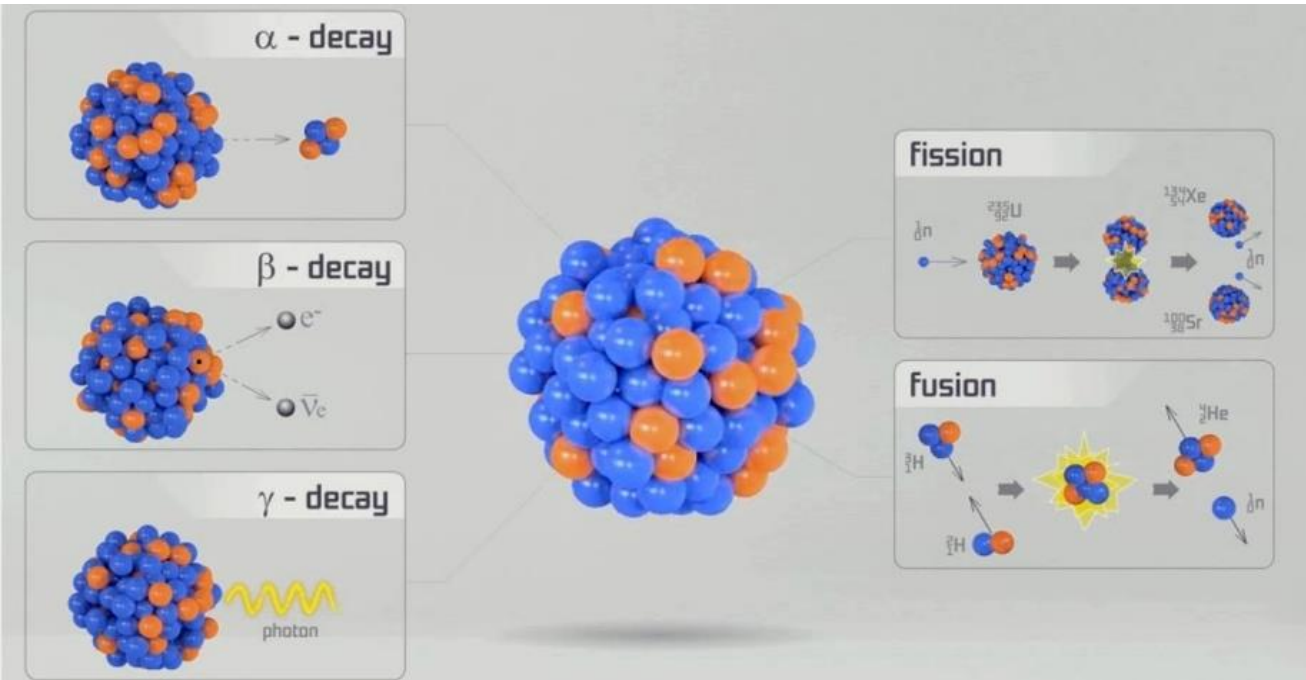
Hands-on lab work



**Multimedia
educational resources**

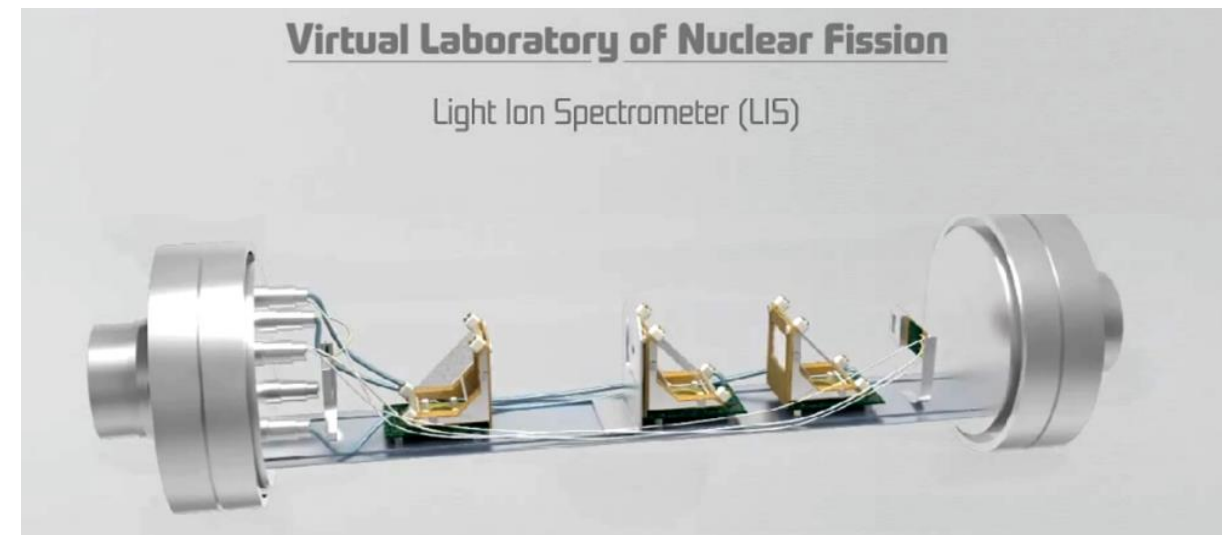


JINR exhibitions



Virtual and online laboratory research

- Theory
- Experiment
- Electronics and Data acquisition system
- Data analysis



Dissertation councils at JINR

authorised 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)
- Dissertation Council 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>

How to become a part of JINR team

Member State



Plenipotentiary

Associate Member



Non-member

JINR collaborations with your country

JINR Information Centre

JINR-based departments
at universities (Russia)

Joint research projects

Science brings nations together



Welcome to our international scientific community!

THANK YOU
for your attention

