



أكاديمية البحث العلمي والتكنولوجيا
Academy of Scientific Research
and Technology



What is after being Egypt
a full member at JINR,
(Future Plan)

- I'll focus on the influence of the cooperation between JINR and ASRT, in particular after being Egypt a full member on the institutional level.
- *Our target is planning for the Strategic Opportunities for empowering Global Collaborative Perspectives Towards Achieving 2030 Main Research Goals.*

In this talk, I'll consider briefly the following topics:

- ***Funding Opportunities***
- ***Role of NNS for strengthens ASRT-JINR collaboration.***
- ***The JINR-Information Center established at ASRT.***

- ❖ The JINR Information Centre at the headquarters of the Egyptian Academy of Scientific Research and Technology is scheduled to be the appliance for expanding the activities of JINR to all the Arab and MENA countries.
- ❖ ASRT has established a well-equipped office provided by powerful network and advanced computers to satisfy the job.

Funding Opportunities

❑ National funding agencies

➤ Science, Technology and Innovation Authority

STDF

➤ Academy of Scientific Research and Technology

ASRT

➤ Misr El Kkheir Foundation (A social society aims

developing human being)

□ International funding agencies

- Egyptian- bilateral cooperation

- Egypt-US
- Egypt -European Union
- Egypt- Russia
- Egypt- Italy
- Egypt- German
- Egypt-Spanish
- Newton-Musharafa
- Egypt-Japan

In all the above cases, each party share with equal amount of fund to support scientific projects according to the bilateral interesting)

- Qater Foundation
- Kuwait Foundation for Advancement of Sciences.
- Islamic World Education, Scientific and Culture Org. ICESCO
- Third World Academy of Science, TWAS

Each of the above agencies has its property , target and has special condition should be followed for application.



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National Network of Nuclear Sciences

NNS

ASRT

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graph TD; ASRT[ASRT] --> NC["National Committees corresponding to – the international association"]; ASRT --> SC[Scientific Councils]; ASRT --> NSN[National Scientific Networks]; NSN --> B1[ ]; NSN --> B2[ ]; NSN --> NNS[NNS];
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National Committees corresponding to – the international association

Scientific Councils

National Scientific Networks

NNS

General Description

- Networking is a modern strategy for Science and technology management in Egypt
- The main target is the coordination between different Scientific authorities:
 - Academic Institutes
 - Research Centers
 - Industrial Sectors
 - End Users (stakeholders)
 - Funding Agencies

Role of Networks

- Implementation of national and International agreements with advanced International Institutes Targeting technology and Knowledge transfer
- Applying Science and Technology for Society development
- Carrying out the policy of the Councils of ASRT
- Dissemination of the Scientific culture in the scientific community (outreach}
- To satisfy the policy of knowledge Based Economy

Structure of NNS

- Administration Office (Head Quarter at **ASRT**)
- Satellite Offices (focal Points) at different regions in Egypt
Alexandria, Zagazig, Menufya, Upper Egypt

In order to implement the activities of NNS we established the following offices:

- Office of ASRT-JINR agreement
 - Office of ASRT-CERN agreement
 - Office of ASRT-SESAME agreement
 - Office of ASRT- INFN agreement
- NNS should connect all the above activities together with the scientific community.**

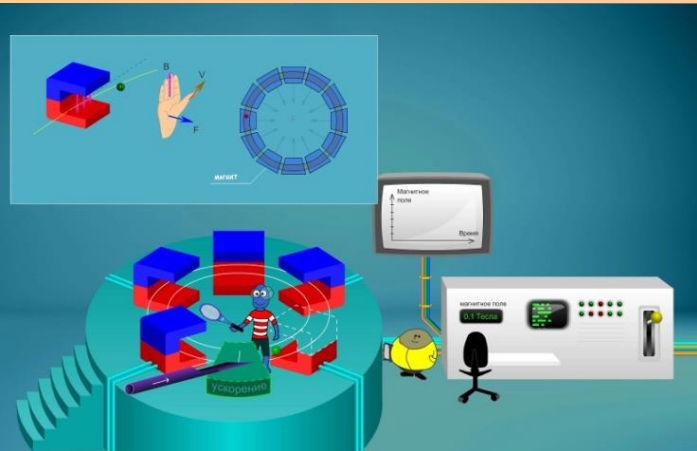
NNS(ASRT)-BLTP(JINR) Lectures week

From Oct 29 to Nov 3, 2022





'NICA Mega-science project' demo lesson



ОБЪЕДИНЕННЫЙ ИНСТИТУТ ЯДЕРНЫХ ИССЛЕДОВАНИЙ

КОЛЛАЙДЕР NICA



Funding of NNS

- Funding depends mainly on financial resources and In-Kind contributions as follows
 - Contribution in international cooperation Paid by Ministry of Foreign Affairs
 - Financial Support by ASRT (limited budget)
 - National and International funding Agencies (by applying for Targeted Projects).
 - In-Kind grants

Future Vision

In the last decade, the cooperation ASRT-JINR passed by successful stories through junior summer schools and joint projects in all fields of experimental and theoretical research.

Egypt participated in all official meetings as observer but without voting. Now Egypt will have its own vote.

1. We expect the following benefits on being full member:
 - a. Expanding the base of Egyptian users to get benefit of the JINR facilities. This will be the role of the newly established information center and the activities carried out by the NNS that should cover most of the Egyptian governorates.
 - b. JINR is an international institute, so this will provide opportunities for the Egyptian entities to cooperate with more than 18 member states.
 - c. The visiting students will enhance their science and can publish articles in high rank international journals. Moreover, they will exchange culture and improve their language with scientist of all the member states.
 - d. Activate the post graduate support plan for students to join the PhD; channel system using the capacity building and infra structure at JINR.
 - e. Exchange professors to handle the academic programs in the Egyptian universities.

- There will be an opportunity to have double university degrees.
- a. Open new scientific fields of cooperation:
 - i. Developing a mechanism that ensures long-term stability of the successful bilateral projects.
 - ii. To set a scale for the scientific/technological outcome values with definite measurable criteria
 - iii. A special attention should be paid to young researchers and to help them to be involved in joint projects.
 - iv. Participating jointly with JINR in worldwide experiment such as CMS at CERN.

The following projects will be available:

- Muon and Silicon detectors at CMS and applications
- Study of Neutrino Oscillation (Experiment & Theory)
- Beyond the Standard Model (Experiment & Theory)
- String Interaction Phenomenology
- Gravitational waves and Quantum Gravity
- Machine Learning in Fundamental Physics

- i. Connecting the super-computing facilities and data basis in the Egyptian institutes with JINR labs.
- ii. Organizing Outreach activities for the national community.

ورشة عمل عن "تحضير و توصيف المواد النانومترية للتطبيقات في التطبيقات النووية"

Workshop on "Synthesis and Characterization of Nanomaterials for Nuclear Applications"

من 18 ل 20 سبتمبر 2022



Outreach programmes





- "برنامج التوعية بالتكنولوجيا النووية لطلاب المدارس"

- "Nuclear technology outreach program for school students"

First event with ST. Fatima LS, American Section

طلاب مدرسة سانت فاتيما للغات - القسم الأمريكي





Final project presentation

