6th International Workshop

Critical Point and Onset of Deconfinement

CPOD Dubna 22-28 August

Welcome from the JINR Directorate

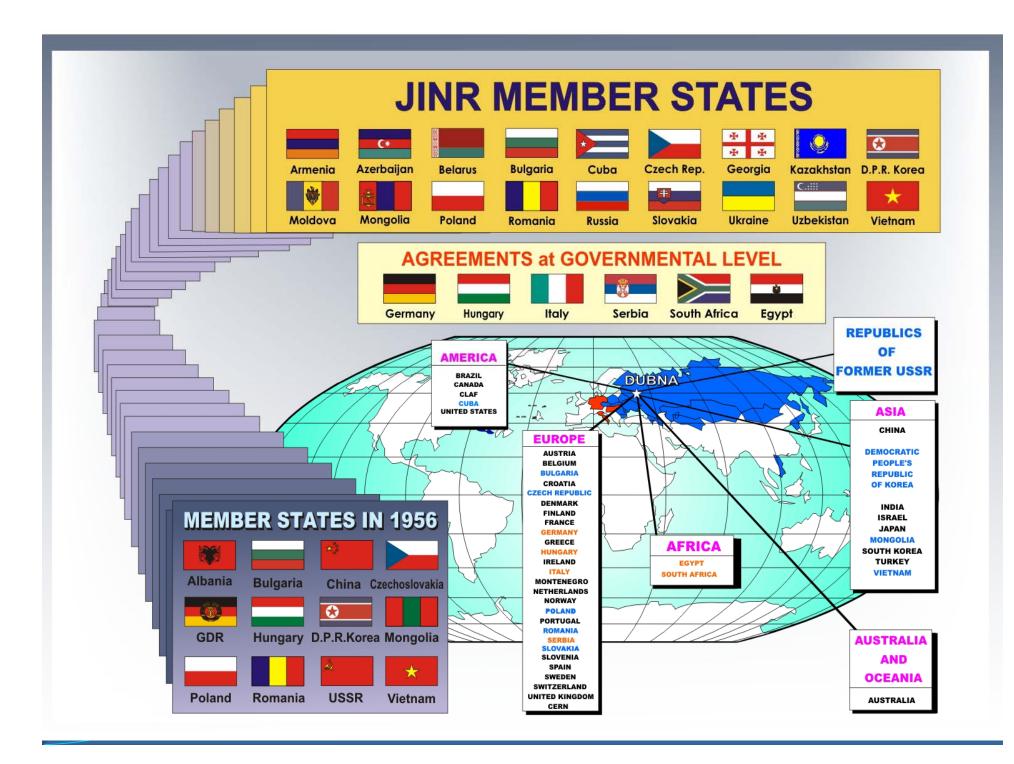


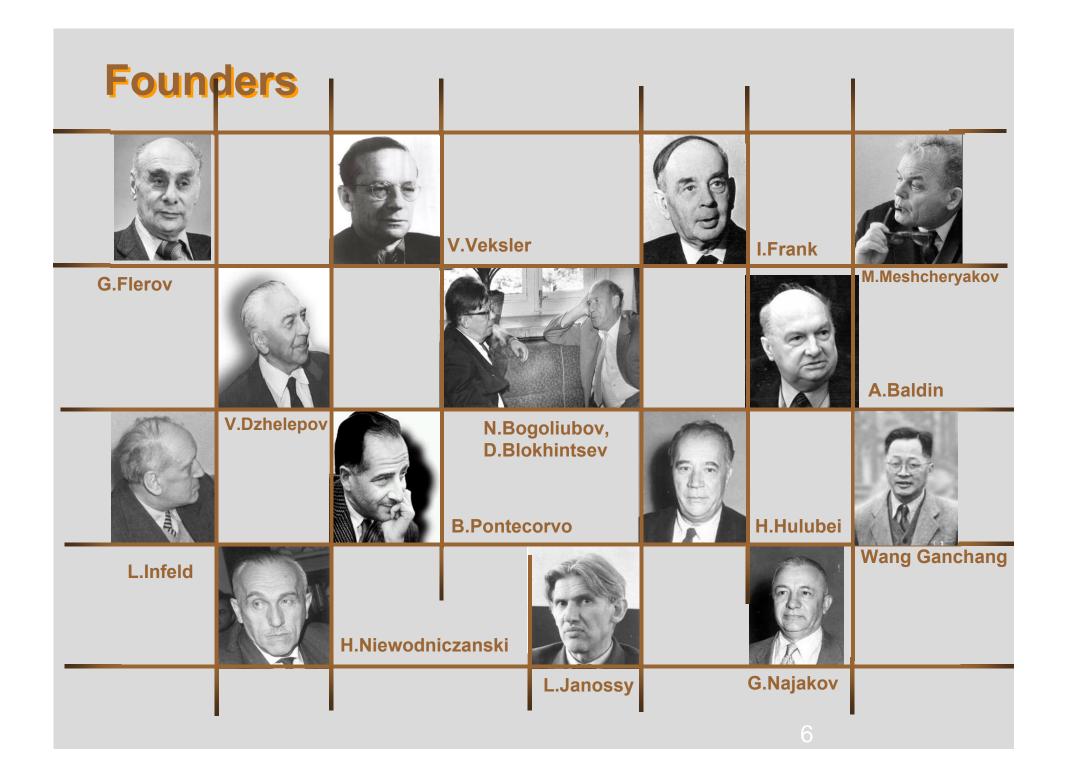


The Science Policy of the Joint Institute for Nuclear Research





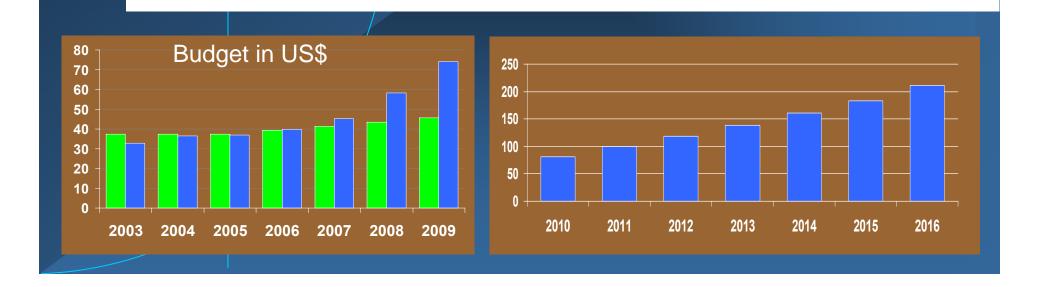




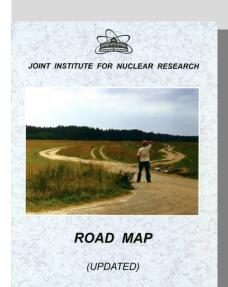
JINR in figures

JINR's staff members ~ 5500 researchers ~ 1300 including from the Member States ~ 500 (but Russia)

Doctors and PhD ~ 1000



JINR's Science Policy



7-Year Programme: '2003 – 2009'

'2010 - 2016'

Road Map (2006-2017)



Fundamental Science

Innovation belt

Education programme

Special Economic Zone "Dubna" Public-Private-Partnership

UC, DIAS-TH International Univ. "Dubna"

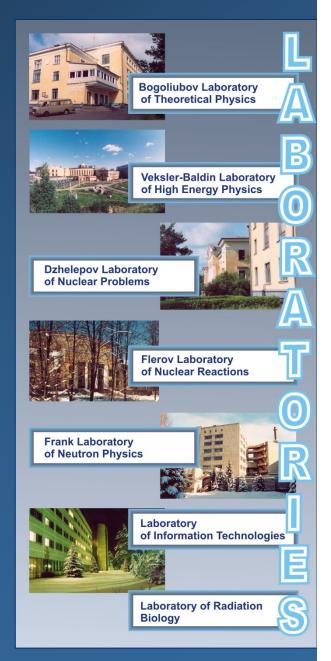
JINR'S ROAD MAP

Basic Scientific Directions

- High Energy Physics
- Nuclear Physics
- Condensed Matter Physics

Main Supporting Activities:

- Theory of PP, NP, CMP
- Networking and computing
- Physics instruments and methods
- Training of young staff



JINR's ROAD MAP

JINR's research niche offered by home facilities

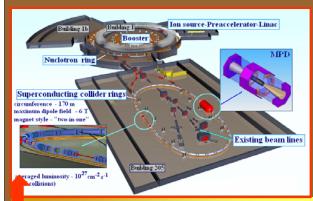
Heavy Ion Physics:

Heavy-Ion Physics at high energies (up to 4.5 GeV/n), Nuclotron-M (in future NICA/MPD facility: $\sqrt{s_{NN}} = (4 - 11)$ GeV, $E_{lab.} \sim (8 - 60$ GeV/n)

Heavy-Ion Physics at Iow and intermediate energies (5 – 100 MeV/n), U400MR, U400R, DRIBs

Condensed Matter Physics & radiobilogy using nuclear physics methods (neutron sources: IBR-2M, IREN-1 & accelerators)

Upgrade of JINR Basic Facilities



Upgraded Nuclotron-M (2008 – 2010) + NICA (2013-2015) **Telecommunication channels:**

20 Gbps – 2009 **40** Gbps – 2010

720 Gbps – 2016



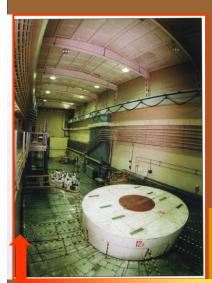


JINR networks:

- GRID technology
- improvement of computer links with Member States (2010-2016)



DRIBs II - (2009-2010) DRIBs III - (2011-2015)



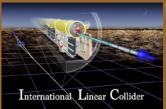
Participating in LHC, RHIC, TEVATRON...
In future: FAIR, ILC ...



LHC-2009



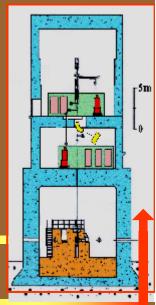
FAIR-2016



ILC - after 2020 (?)

New reactor IBR-2M – 2010 Complex of modern neutron spectrometers (2011-2016)





A vitally important task is attracting of young people from all the Member States to science

EDUCATIONAL PROGRAMME



JINR UNIVERSITY CENTRE

(established in 1991)

More than 300 students and postgraduates from Member States are trained at the UC

Chairs:

MSU

MIPT

MEPI

MIREA

others

JINR is a school of excellence for the Member States!

"Dubna" International
University
(established in 1994)





DIAS - TH

Dubna International Advanced School on Theoretical Physics (started in 2003)

The UC offers graduate programmes in the fields of:

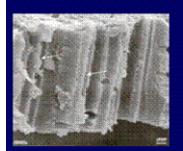
- **♦ Elementary Particle Physics**
- ♦ Nuclear Physics
- ◆ Theoretical Physics
- ◆ Condensed Matter Physics
- ◆ Technical Physics
- ◆ Radiobiology



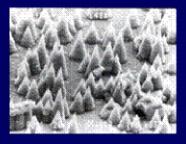


SEZ main specialization > 50 projects from JINR

Nanotechnologies







COPPER MICROTUBES

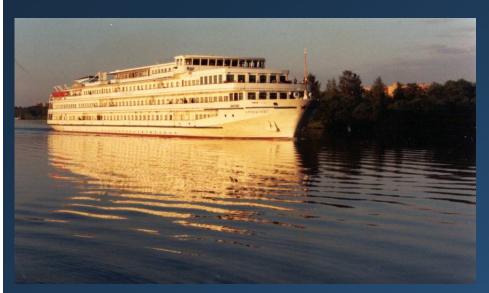
METALLIC NEEDLES











Critical Point and Onset of Deconfinement CPOD Dubna 22-28 August



Wishing you a productive work and a pleasant stay here in Dubna

Thank you for the attention

More information on JINR: www.jinr.ru

