

**Объединенный институт ядерных исследований
Joint Institute for Nuclear Research**

**Information
on the decisions
of the JINR Committee
of Plenipotentiaries
(21 – 22 March 2002)**

V.G. Kadyshevsky

Contents

- **Decisions of the Committee of Plenipotentiaries (21-22 March 2002)**
 - **Research activities**
 - **Finances**
 - **Funding of priority activities**
 - **7-year programme scientific research and development at JINR**
- **Latest news in brief**

Committee of Plenipotentiaries



JINR, Dubna, 21 March 2002

Committee of Plenipotentiaries

- **Directorate's report**
- **Finances: status and plans**
- **On the proposal of the Russian Federation to take into account the special financing for the JINR scientific projects**
- **Elections of the new members of the JINR Scientific Council**
- **On the name the Laboratory of High Energies**
- **Presentation of the DRIBs facility**

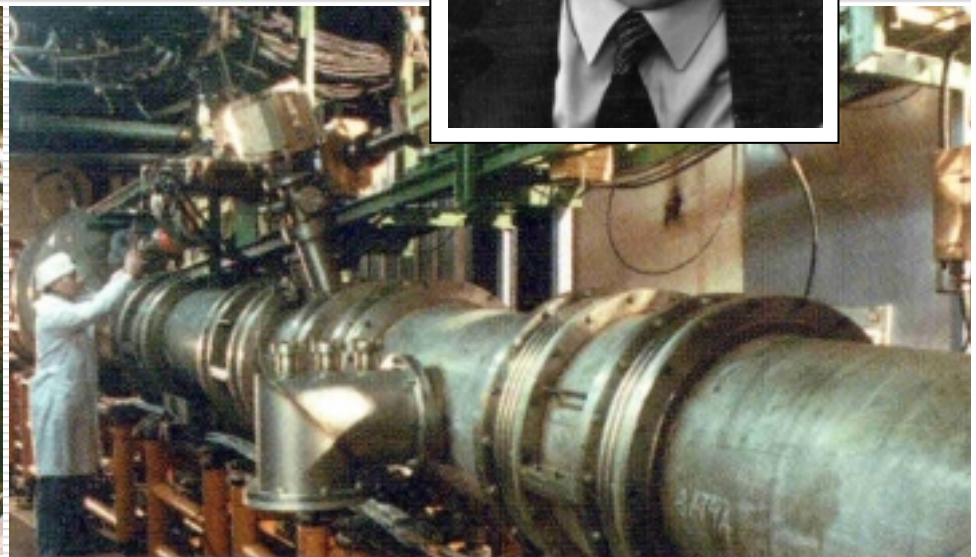
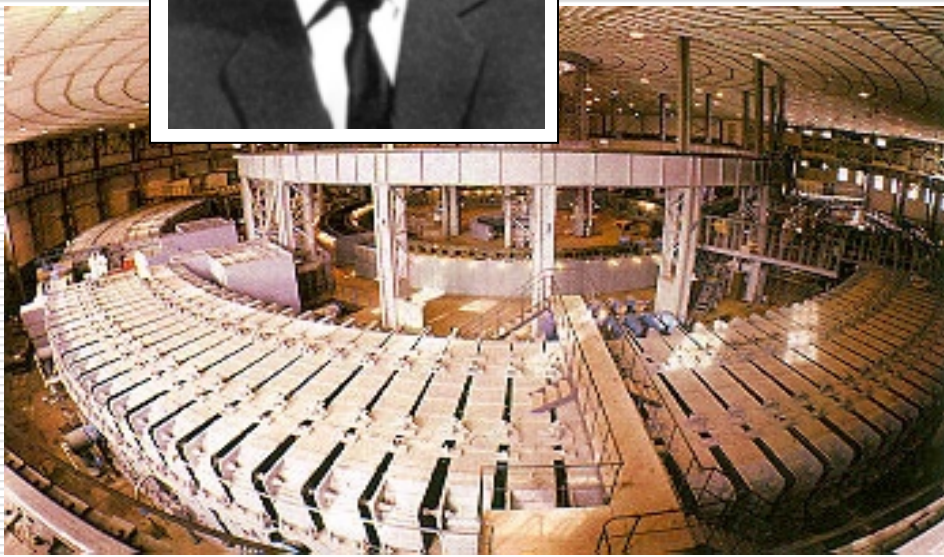
Committee of Plenipotentiaries



DRIBs at FLNR, JINR, Dubna, 22 March 2002



Veksler – Baldin Laboratory of High Energies



New members of the JINR Scientific Council

■ New appointments:

- **A.N. Antonov (Bulgaria)**
- **G. Stratan (Romania)**

■ New members elected by CP:

- **M.V. Kovalchuk (Russia)**
- **D.L. Nagy (Hungary)**
- **A. Wagner (Germany)**

Scientific Programme in 2002



JOINT INSTITUTE FOR NUCLEAR RESEARCH

11-8015

**TOPICAL PLAN
FOR JINR RESEARCH
AND INTERNATIONAL COOPERATION
IN 2002**

Dubna 2001



ОБЪЕДИНЕННЫЙ ИНСТИТУТ ЯДЕРНЫХ ИССЛЕДОВАНИЙ

11-8014

**ПРОБЛЕМНО-ТЕМАТИЧЕСКИЙ ПЛАН
НАУЧНО-ИССЛЕДОВАТЕЛЬСКИХ РАБОТ
И МЕЖДУНАРОДНОГО СОТРУДНИЧЕСТВА
ОБЪЕДИНЕННОГО ИНСТИТУТА
ЯДЕРНЫХ ИССЛЕДОВАНИЙ
НА 2002 ГОД**

Дубна 2001

Priority Activities in 2002



ОБЪЕДИНЕННЫЙ ИНСТИТУТ ЯДЕРНЫХ ИССЛЕДОВАНИЙ
JOINT INSTITUTE FOR NUCLEAR RESEARCH

11-8038

91-я сессия Ученого совета ОИЯИ
17-18 января 2002 года

91th Session of the JINR Scientific Council
17-18 January 2002

Дубна 2002

Scientific Council endorses the following priority activities in 2002:

- improvement of the Nuclotron beam extraction system and of external beam lines, further improvement of the accelerated and extracted beam parameters, achievement of a wider range of accelerated particles and nuclei for the users, operation and development of the Nuclotron, and further reduction of electric power consumption for its operation;**
- modernization of the IBR-2 reactor according to the schedule of activities approved by the Agreement between JINR and the Russian Ministry for Atomic Energy: construction of the new movable reflector, replacement of the reactor core, manufacturing of the reactor's new fuel loading, and replacement of the cryogenic facility;**

-

Finances

- **Committee of Plenipotentiaries:**
- **takes note of the information on the execution of the JINR budget in 2001**
 - **on expenses - for 21 321,5 k\$ US**
 - **on income - for 19 287,7 k\$ US;**
- **approves the JINR budget for 2002 amounting to 37.5 M\$ US.**

«УТВЕРЖДАЮ»
Министр промышленности, науки и
технологий Российской Федерации

И.И. Клебанов

«УТВЕРЖДАЮ»
Министр Российской
Федерации по атомной энергии

А.Ю. Румянцев

«УТВЕРЖДАЮ»
Директор Объединенного Института
ядерных исследований

В.Г. Кадышевский



- 22 - *Май* 2002 г.

Russian contribution:
Ministry of Industry, Science and Technology
5 M\$ + 462.5 Mrbls. for the JINR activities
Ministry of Atomic Energy
450.0 k\$ for IBR-2 modernization
537.5 k\$ for synthesis programme & DRIBs

1. Финансирование расходов по участию Российской Федерации в научной деятельности ОИЯИ осуществляется за счет бюджетных средств, выделяемых Минпромнауки России на НИОКР гражданского назначения, внебюджетных

2

средств Минатома России и валютного финансирования расходов по оплате валютной части долевого взноса России в ОИЯИ из федерального бюджета по разделу «Международная деятельность».

2. Министерство Российской Федерации по атомной энергии выделяет в 2002 году средства в рублях, эквивалентные 535,7 тыс. долларов США, для оплаты работ и услуг по программе «Получение, теоретические и экспериментальные исследования ядер новых сверхтяжелых элементов «острова стабильности» и изучение химических свойств этих элементов», и рублевые средства эквивалентные 450,0 тыс. долларов США, для модернизации реактора ИБР-2.

3. Министерство промышленности, науки и технологий Российской Федерации обеспечивает в 2002 году из имеющихся в его распоряжении средств финансирование расходов по оплате долевого взноса России в ОИЯИ:

- в иностранной валюте - по разделу «Международная деятельность» в объеме 5 млн. долларов США;
- в национальной валюте Российской Федерации - по разделу «Фундаментальные исследования и содействие научно-техническому прогрессу» по линии Минпромнауки России в объеме 462,5 млн рублей.

4. Объединенный институт ядерных исследований обязуется выделить в 2002 году в рамках своего бюджета средства эквивалентные 250,0 тыс. долларов США, для модернизации реактора ИБР-2 и реализации совместных, в том числе в области фундаментальных исследований, исследований в области синтеза сверхтяжелых элементов.

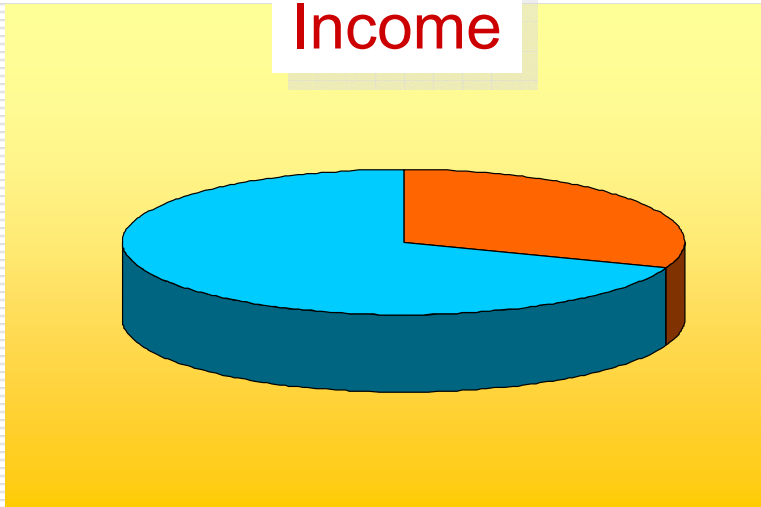
Руководитель Департамента
фундаментальных и поисковых
исследований в области

Помощник директора
ОИЯИ по экономическим
вопросам

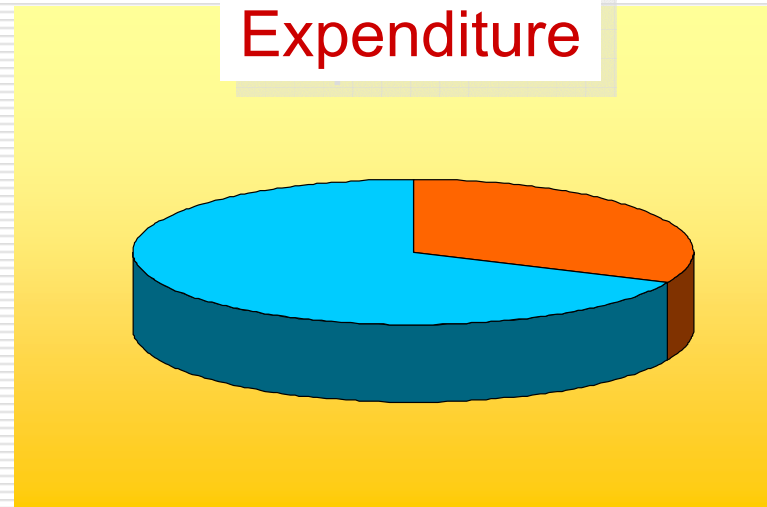
В.В. Катрасев

Finances in 2002

Income



Expenditure

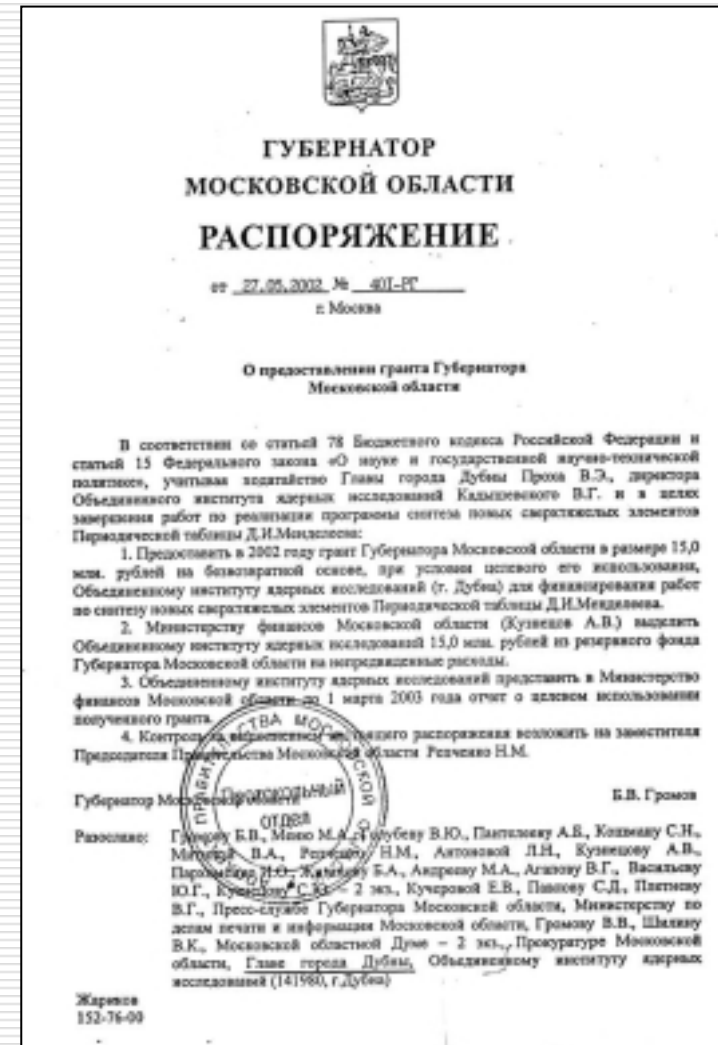


- – total: \$ 37,5 mln.
- ◆ – actual data

Grant of B. Gromov



B. Gromov, Governor of the Moscow Region



Projects Funding in 2002

Field of activity	Number of projects	Funding, k\$
Theoretical physics	1	80,0
Elementary particle physics	13	594,5
Relativistic nuclear physics (including nuclotron)	8	545,0
Heavy-ion physics (synthesis & DRIBs)	1	1300,0
Low- and intermediate-energy physics	2	155,0
Nuclear physics with neutrons (IREN)	1	380,0
Condensed matter physics (including IBR-2)	3	380,0
Radiation and radiobiological research	1	25,0
Networking, computing, computational physics	1	200,0
Educational programme	1	20,0
Total:	32	3679,5

Contracts with Member States

Laboratory	Funding, k\$
Veksler-Baldin Laboratory of High Energy Physics	166,07
Dzhelepov Laboratory of Nuclear Problems	636,06
Frank Laboratory of Neutron Physics	286,84
Flerov Laboratory of Nuclear Reactions	227,25
Laboratory of Particle Physics	1284,03
Total:	2600,25

7-year Programme

Based on the PACs recommendations as well as on those of the summer session of the Scientific Council, the JINR Directorate intends to work out a draft of the seven-year programme by October 2002, then to forward the document to the Member States and present it at the 93rd session of the Scientific Council in January 2003.

JINR Directorate's proposal:

- **to agree with the proposal of the JINR Directorate to postpone the forthcoming election for the position of BLTP Director for 2-3 years;**
- **to appoint Vice-Director A. Sissakian as Acting Director of BLTP after 16 January 2003;**
- **to commission Professor A. Sissakian to begin, on the basis of the Bogoliubov Laboratory, the preparation of a Programme of Theoretical Physics Research in line with the strategy of the development of JINR according to the 7-year plan.**

Coordinating Committees with the JINR Member States



Prague, 3 April 2002 & Bratislava, 5 April 2002

Cooperation with Czech Republic



Prague, 8 April 2002



Parliament Members of Czech Republic at JINR



JINR, Dubna, 27 March 2002

Cooperation with Bulgaria



JINR, Dubna, 27 April, 2002

Cooperation with Bulgaria



Sofia, Bulraria, 10 May 2002

BMBF – JINR Coordinating Committee



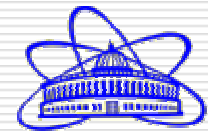
JINR, Dubna, 25-26 February 2002



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**Bundesministerium
für Bildung und Forschung**

**JINR,
Dubna**



ISINN-10



**X International Seminar on Interactions of Neutrons with Nuclei
JINR, Dubna, 22 – 25 May 2002**

HIPH'02



**VII School-seminar on heavy ion physics
JINR, Dubna, 27 May – 1 June 2002**

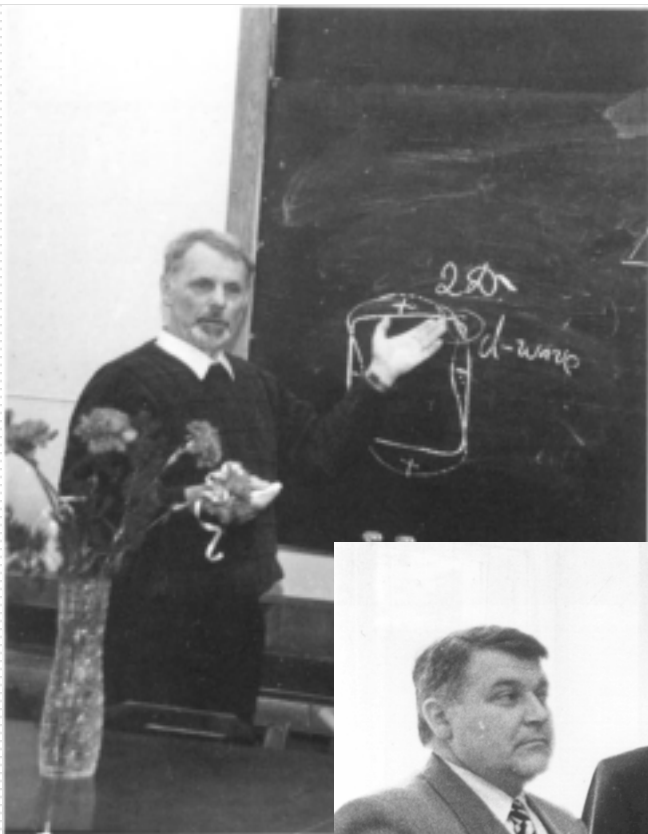
International Association of Academies of Sciences



**Holiday Hotel "Dubna" in Alushta
(Crimea, Ukraine)
28 - 29 May 2002**



School on Neutron Scattering and Synchrotron Radiation



**JINR, Dubna,
8 February 2002**

Students from Poznan University at JINR



JINR, Dubna, 19-26 April 2002



*In memory of V. I. Veksler
(1907 - 1966)*

International Seminar "Accelerators of Particles and Nuclei: Past, Present and Future." (ISAPAN-02)

4-6 March 2002, Dubna, Russia

Seminar Organizers

- Joint Institute for Nuclear Research (JINR)
- Lebedev Physics Institute of the Russian Academy of Sciences
- Division of Nuclear Physics of the Russian Academy of Sciences
- Ministry of the Russian Federation for Atomic Energy
- Ministry of Industry, Science and Technologies of the Russian Federation

Sponsored by

- International Scientific Technical Center
- Russian Foundation for Basic Research

Main Seminar Topics

- accelerator construction and development
- detectors development
- main discoveries of the last century
- developments in the theory of particle interactions

Programme Committee

V. Kadyshevsky *Chairman*
A. Sissakian
I. Savin *Co-Chairman*
A. Malakhov
V. Kekelidze
I. Meshkov
V. Zhabitsky
A. Lebedev

International Advisory Committee

S. Belyaev (Kurchatov Institute, Russia)	S. Ozaki (BNL, USA)
Ts. Baatar (IP, Mongolia)	B. Richter (SLAC, USA)
M. Danilov (ITEP, Russia)	C. Rubbia (CERN, Switzerland)
D. Dazhay (CIAE, China)	A. Rumyantsev (MINATOM, Russia)
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He. Edwards (FNAL, USA)	A. Skrinski (RAS, Russia)
V. Glukhikh (Efremov Institute, Russia)	R. Sosnovski (INR, Poland)
M. Kirpichnikov (Minpromnauka, Russia)	P. Spillantini (INFN, Italy)
O. Krokhin (LPI, Russia)	E. Tamm (LPI, Russia)
A. Hryniewicz (INP, Poland)	D. Trines (DESY, Germany)
G. Lambertson (LBNL, USA)	A. Tavkhelidze (GAS, Georgia)
A. Logunov (IHEP, Russia)	A. Wagner (DESY, Germany)
Fr. Lehar (Saclay, France)	A. Vasiliev (MRTI, Russia)
V. Matveev (INR, Russia)	V. Vladimirov (ITEP, Russia)
	M. Witherell (FNAL, USA)

The information about the seminar, JINR and Dubna is available on the web sites: <http://www.jinr.ru> or <http://www.lhe.jinr.ru>
Contact e-mail address: savin@sunse.jinr.ru, plekhanov@jinr.ru, natasha@cv.jinr.ru

Научный семинар, посвященный 45-летию запуска Синхрофазотрона,

состоится 26 апреля 2002г. в 11.00 в
конференц-зале ЛВЭ.



11.00 Кадышевский В.Г.,
Малахов А.И.

Открытие.

11.25 Семенюшкин И.Н.

Синхрофазотрон ОИЯИ.
Создание и развитие.

11.50 Смирнов А.А.

Создание систем питания
синхрофазотрона.

12.15 Пилипенко Ю.К.

Поляризация на
Синхрофазотроне.

13.05 Кузнецов А.А.

Открытие антисигма-минус-
гиперона.

13.30 Хачатурян М.Н.

Открытие распада $\phi \rightarrow e^+e^-$.

13.55 Никитин В.А.

Открытие явления
потенциального рассеяния
протонов высоких энергий.

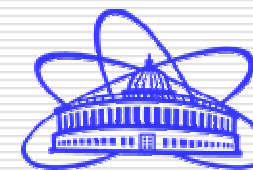
Monument to I.Kurchatov in Dubna



Dubna, 4 June 2002



INFN (Italy) – JINR



**AGREEMENT
between
the National Institute of Nuclear Physics, Republic of Italy
(INFN)
and
the Joint Institute for Nuclear Research, Dubna, Russian Federation
(JINR)
concerning scientific and technological cooperation**

Preamble

INFN and JINR,
hereinafter referred to as the Parties,
considering the long and successful collaboration between INFN and JINR in various experiments and other scientific activities implemented in accordance with the preceding agreements between INFN and JINR;
wishing to regulate further the joint research activities and cooperation in using the experimental facilities of INFN and JINR;
wishing to promote their farther collaboration in common projects,
have agreed as follows:

**Article 1
Subject of cooperation**

- (1) JINR is ready to receive scientists and technical personnel from the Republic of Italy and to offer them the best conditions to take part in and collaborate within the JINR Scientific Programme or to use facilities and services of the Institute for supporting or carrying out experiments and researches.
- (2) INFN is ready to support, on a best effort basis, the participation of JINR teams performing common research in the Republic of Italy within the frame of the agreed projects.
- (3) The fields of research and facilities in which the Parties are interested, as well as specific services to be rendered by INFN and JINR, and particular conditions for them shall be stipulated in the Protocols attached to the present Agreement. The said Protocols shall be annually reviewed by special representatives of INFN and JINR as described in Article 2 and, on the initiative of the later ones, they may be amended and new Protocols may be approved by INFN and JINR in accordance with their internal relevant procedures.

**Article 4
Funding of joint research projects**

INFN and JINR will do their best to financially support the joint research projects performed in accordance with Article 1 of the present Agreement.

**Article 5
Responsibility**

- (1) The Parties shall not be responsible to each other for damage caused by the personnel sent in accordance with this Agreement.
- (2) INFN or JINR shall not be responsible for any damage inflicted on a third party in connection with the common activities.
- (3) Each Party shall be responsible to the other Party only for damage to its personnel from injury at the working place or occupational disease arising from implementation of this Agreement. The Parties shall mutually refrain from claiming damages or bringing a regressive suit in so far as it does not affect the insurance. The Parties shall seek to get abandonment of claims from their insured personnel.
- (4) INFN and JINR shall bear the expenses of compensation for damage to their own facilities, instruments, etc. and mutually refrain from suing each other for damages.

**Article 6
Settlement of disputes**

The Parties shall seek to settle problems arising from implementation of the present Agreement on the basis of mutual understanding. The disputes concerning interpretation and application of the present Agreement shall be settled by consultation between Parties.

**Article 7
Entry into force and duration**



The Agreement shall be in force for an initial period of five years from the date of its signature. It shall thereafter be renewed, each time for another period of five years, unless written notice of termination is given by either Party to the other at least six months before the renewal date.

For the National Institute of Nuclear Physics, Republic of Italy

[Signature]
ISTITUTO NAZIONALE DI FISICA NUCLEARE
IL PRESIDENTE
(Prof. Enzo Majorani)

For the Joint Institute for Nuclear Research

[Signature]
V. Kadyshinskiy



Cooperation with Greece



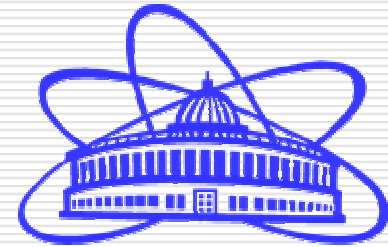
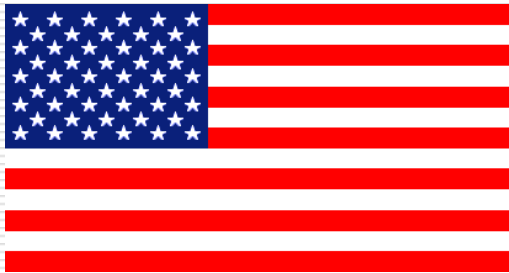
**Dr. D.Denizos (General Secretary for Research and Technology of Greece)
JINR, Dubna, 29 January 2002**

Cooperation with India



**Visit of Krishnan RAGHUNATH, Ambassador of India in RF
JINR, Dubna, 7 May 2002**

Cooperation with the USA



**Joint Statement of Intent
Between
The Department of Energy of the United States of America
And
The Joint Institute for Nuclear Research at Dubna**

WHEREAS, the Department of Energy of the United States of America (DOE) and the Joint Institute for Nuclear Research (JINR), hereinafter referred to as the Participants, have a mutual interest in strengthening cooperation in particle and nuclear physics;

WHEREAS, the Participants desire to commence science and technology cooperation in accord with new political, economic and social realities;

WHEREAS, the Participants recognize that cooperation in these areas is beneficial for both countries and the advancement of science;

RECOGNIZING, the long and successful collaboration on numerous experiments and other scientific activities in the fields of particle physics and nuclear physics between JINR and Argonne National Laboratory, Brookhaven National Laboratory, Fermi National Accelerator Laboratory, Lawrence Berkeley National Laboratory, Lawrence Livermore National Laboratory, Los Alamos National Laboratory, as well as other US scientific centers and universities;

DESIRING to formulate further joint research activities and cooperation using experimental facilities and research laboratories of the Parties;

THEREFORE, the Participants declare their intention to promote joint activities in the above-mentioned areas.

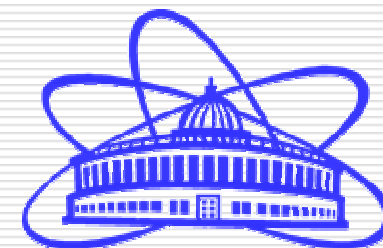
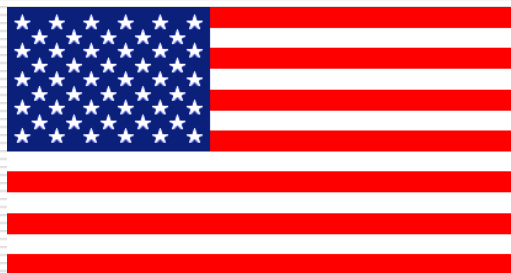
Signed at Dubna, April 23, 2002.


For the U.S. Department of Energy


For the Joint Institute for
Nuclear Research at Dubna

R.Card (DoE, USA) and V.Kadyshevsky (JINR), Dubna, 23 April 2002

Cooperation with the USA



Dr. J. Marburger at JINR, Dubna, 3 June 2002
