

8.1. STRUCTURE OF LABORATORY AND SCIENTIFIC DEPARTMENTS

Directorate:

Director:
A.V.Belushkin
Deputy Director:
W.I.Furman
Scientific Secretary:
V.V.Sikolenko

Reactor and Technical Departments

Chief engineer: V.D.Ananiev
IBR-2 reactor
Chief engineer: A.V.Vinogradov
Department of IREN
Head: V.G.Pitaev
IBR-30 booster + LUE-40 Group
Head: S.A.Kvasnikov
Mechanical maintenance division
Head: A.A.Belyakov
Electrical engineering department
Head: V.P.Popov
Design bureau
Head: A.A.Kustov
Experimental workshops
Head: A.N.Kuznetsov

Scientific Departments and Sectors

Condensed matter department
Head: V.L.Aksenov
Nuclear physics department
Head: V.N.Shvetsov
Department of IBR-2 spectrometers complex
Head: A.V.Belushkin
Nuclear Safety and applied research sector
Head: E.P.Shabalin

Administrative Services

Deputy Director: S.V.Kozenkov
Secretariat
Finances
Personnel

Scientific Secretary Group

Translation
Graphics
Photography
Artwork

CONDENSED MATTER DEPARTMENT

Sub-Division	Title	Head
Diffraction sector. Head: A.M.Balagurov		
Group No.1	HRFD	V.Yu.Pomjakushin
Group No.2	DN-2	A.I.Beskrovnyi
Group No.3	DN-12	B.N.Savenko
Group No.4	NSVR	A.N.Nikitin
Group No.5	SKAT	K.Ullemeyer
Small-angle neutron scattering group. Head: V.I.Gordeliy		
Neutron optics sector. Head: V.L.Aksenov		
Group No.1	SPN-1	Yu.V.Nikitenko
Group No.2	REFLEX	D.A.Korneev
Inelastic scattering group. Head: I.Natkaniec		
Biophysics investigations group. Head: I.N.Serdyuk		

NUCLEAR PHYSICS DEPARTMENT

Sub-Division	Title	Head
Group No.1	Polarized neutrons and nuclei	Yu.D.Mareev
Group No.2	Neutron spectroscopy	Yu.N.Kopatch
Group No.3	Nuclear fission	Sh.S.Zeinalov
Group No.4	Thermal polarized neutrons	M.I.Tsulaya
Group No.5	Proton and α -decay	Yu.M.Gledenov
Group No.6	Properties of γ -quanta	A.M.Sukhovoy
Group No.7	Neutron structure	G.S.Samosvat
Group No.8	Ultra-cold neutrons	
Group No.9	Neutron optics	A.I.Frank
Group No.10	Neutron activation analysis	M.V.Frontasyeva
Group No.11	Theory	V.K.Ignatovich

DEPARTMENT OF IBR-2 SPECTROMETERS COMPLEX

Sub-Division	Title	Head
Sector No.1	Electronics	V.I.Prikhodko
Group No.1	Analogous electronics	A.A.Bogdzal
Group No.2	Digital electronics	V.F.Levchanovsky
Group No.3	Software	A.S.Kirilov
Group No.4	Local networks	G.A.Sukhomlinov
Group No.5	Technology	A.B.Melnichuk
Sector No.2	Spectrometers	V.V.Zhuravlev
Group No.1	Development	G.A.Varenik
Group No.2	Samples environment	A.P.Sirotin
Group	Detectors	E.S.Kuzmin

8.2. USER POLICY

The IBR-2 reactor usually operates 8 cycles a year (2000 hrs.) to serve the experimental programme. A cycle is established as of 2 weeks of operation for users, followed by a one week period for maintenance and machine development. There is a long shut-down period between the end of June and the middle of October.

All experimental facilities of IBR-2 are open to the general scientific community. The User Guide for neutron experimental facilities at FLNP is available by request from the Laboratory's Scientific Secretary.

Condensed matter studies at IBR-2 have undergone some changes in accordance with the experience gained during the last several years. It was found to be necessary to establish specialized selection committees formed of independent experts in their corresponding fields of scientific activities. The following four committees were organized:

1. <u>Diffraction</u> <i>Chairman - V.A.Somenkov - Russia</i>	3. <u>Neutron optics</u> <i>Chairman - A.I.Okorokov - Russia</i>
2. <u>Inelastic scattering</u> <i>Chairman - W.Nawrocik - Poland</i>	4. <u>Small angle scattering</u> <i>Chairman - L.Cser - Hungary</i>

Scientific Secretary, Dr. Vadim V.Sikolenko is responsible for the user policy. Deadline for proposal submission is May 16.

The IBR-2 beam schedules are drawn up by the head of the Condensed Matter Department together with instruments responsible on the basis of experts recommendations and are approved by the FLNP Director or Deputy Director for condensed matter physics. The schedules are sent to Chairmen of Selection Committees.

After the completion of experiments, "Experimental Report" forms are filled out by experimenter(s) and submitted to the Scientific Secretary.

The Application Form and other information about FLNP are available by WWW: <http://nfdfn.jinr.ru/>

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8.3. MEETINGS AND CONFERENCES

In 2001, FLNP organized the following meetings:

1.	IX International Seminar on Interaction of Neutrons with Nuclei (ISINN-9)	May 17-20	Dubna
2.	School on Neutron Scattering and Synchrotron Radiation,	March 19 – April 27	Dubna
3.	IBR-2 in the XXI century. User's Meeting	May 24-26	Dubna

In 2002, FLNP will organize the following meetings:

1.	X International Seminar on Interaction of Neutrons with Nuclei (ISINN-10)	May 22-25	Dubna
2.	School on Neutron Scattering and Synchrotron Radiation	February 8 – March 7	Dubna
3.	JINR-Romania Workshop on Material Science	March 22-25	Dubna
4.	IBR-2 User's Meeting	June 17-19	Dubna

8.4. COOPERATION

List of Visitors from Non-Member States of JINR in 2001

Name	Organization	Country	Dates
M.M.El-Saied	NRC, AEA, Cairo	Egypt	01.01-12.03
A.H.Murbut	University of Baghdad	Iraq	01.01-17.11
G.Pepy	LLB, Saclay	France	09.01-18.01
V.Lauter	ILL, Grenoble	France	17.01-27.01
H.-J.Lauter	ILL, Grenoble	France	20.01-27.01
W.Kraan	TU Delft	The Netherlands	20.01-25.01
M.Rekveldt	TU Delft	The Netherlands	20.01-25.01
D.Aston	London University	UK	04.02-08.02
A.Lloid	London University	UK	04.02-08.02
S.D.Hope	London University	UK	04.02-08.02
K.Walther	GeoFRZ, Potsdam	Germany	27.02-04.03
S.S.Bhatti	ABZ AGGREGATE-BAU	Germany	27.02-04.03
V.V.Chupin	University of Utrecht	The Netherlands	05.03-06.03
F.Haussler	Leipzig University	Germany	19.03-26.03
A.Frischbutter	GeoFRZ, Potsdam	Germany	22.03-06.04
Ch.G.Geibel	Inst. of Chem. Phys. Sol. State, Dresden	Germany	04.04-04.04
S.A.Danilkin	HMI, Berlin	Germany	08.04-25.04
M.Jung	TU, Darmstadt	Germany	09.04-20.04
M.Hoelzel	GSI, Darmstadt	Germany	17.04-25.04
K.Walther	GeoFRZ, Potsdam	Germany	19.04-26.04
G.Klose	Leipzig University	Germany	19.04-21.04
A.Frischbutter	GeoFRZ, Potsdam	Germany	19.04-26.04
V.Lauter	ILL, Grenoble	France	20.04-30.04
H.-J.Lauter	ILL, Grenoble	France	20.04-30.04
A.A.Nikolaev	Uhlm University	Germany	21.04-22.04
B.H.Tietze-Jaensch	FZ, Julich	Germany	29.04-01.05
O.Steinsvoll	Inst. for Energy Technology, Kjeller	Norway	13.05-26.05
Kang Youn Soo	Pusan National University	Korea	14.05-09.06
J.Teixeira	LLB, Saclay	France	19.05-26.05

D.Radnovic	Univ. of Novi Sad	Yugoslavia	22.05-28.05
V.V.Chupin	University of Utrecht	The Netherlands	23.05-24.05
D.Richter	FZ, Julich	Germany	24.05-27.05
M.C.B.Funel	LLB, Saclay	France	29.05-30.05
P.Fischer	PSI, Villigen	Switzerland	31.05-02.06
A.Schenck	PSI, Villigen	Switzerland	31.05-03.06
S.Billinge	University of Michigan	USA	20.06-23.06
Ya.Veyberman	University of Rochester	USA	01.06-25.06
M.Rudalics	RISC, JK Univ., Linz	Austria	01.07-01.08
T.Kawai	RRI, Kyoto University	Japan	22.07-27.07
Ya.Tsuruta	RRI, Kyoto University	Japan	19.08-25.08
M.Shimonaka	RRI, Kyoto University	Japan	19.08-25.08
R.Machrafi	Univ.Mohamed V.Rabat	Morocco	25.08-31.12
D.Richar	ILL, Grenoble	France	22.09-29.09
A.Chatt	Dalhausie University, Halifax	Canada	03.10-13.10
A.Gabriel	European Molecular Biology Lab., Grenoble	France	08.10-17.10
K.Walther	GeoFRZ, Potsdam	Germany	08.10-26.10
K.N.Clausen	FZ, Julich	Germany	08.10-12.10
P.Tindemann	FZ, Julich	Germany	08.10-12.10
H.Kuzmani	Inst. fur Materialphysik, Vienna	Austria	23.10-24.10
A.Frischbutter	GeoFRZ, Potsdam	Germany	08.11-14.11
Kang Youn Soo	Pusan National University	Korea	11.11-18.12
Kim Gui Nyun	Kyungpook Nat. Univ., Taegu	Korea	11.11-20.11
Lee Dae Won	Kyungpook Nat. Univ., Taegu	Korea	14.11-20.11
V.Lauter	ILL, Grenoble	France	19.11-25.11
H.-J.Lauter	ILL, Grenoble	France	19.11-25.11
G.Klose	Leipzig University	Germany	19.11-25.11
T.A.Salama	NRC, AEA, Cairo	Egypt	06.12-06.03.02

8.5. EDUCATION

The objective of the FLNP educational program is the training of specialists in the field of neutron methods for condensed matter and nuclear physics research. In the year 2001 in Moscow State University named after M.V.Lomonosov the neutron diffraction division as a part of physics department was opened and it is a basic department for FLNP. In addition to the students of this department, the students of the MSU Interfaculty Center «Structure of Matter and New Materials» carry out their diploma work in FLNP. In the Center the students from the Chemical Faculty of MSU, Higher College of Materials Sciences under MSU, Tula State University, Tula Pedagogical University, Tver State Univesity and other universities of Russia and JINR member-states do the course.

In the year 2001, the traditional annual Spring School on Neutron Scattering for Condensed Matter Research was organized by FLNP in cooperation with MSU. The participants listened to the lectures by eminent scientists and did a series of practical works at the IBR-2 reactor and other JINR facilities under the guidance of FLNP specialists.

8.6. PERSONNEL

Distribution of the Personnel per Department as of 01.01.2001

Theme	Departments	Main staff
-0974-	Nuclear Physics Department	60.5
-1031-	Condensed Matter Physics Department	48.5
-1012-	IBR-2 Spectrometers Complex Department	53.5
-0993-	IREN Department	22.5
-1007-	Nuclear Safety Sector	14.75
-0851-	IBR-2 Department	51
	Mechanical and Technical Department	61
	Electric and Technical Department	34
	Central Experimental Workshops	39
	Design Bureau	8
	<u>FLNP infrastructure:</u>	
	Directorate	6
	Services and Management Department	22
	Scientific Secretary Group	6
	Supplies Group	5
Total		432

Personnel of the Directorate as of 01.01.2001

Country	People
Azerbaijan	1
Armenia	1
Bulgaria	2
Egypt	1
Germany	4
Georgia	2
Kazakhstan	1
Mongolia	2
Poland	5
Romania	4
Russia	20
Ukraine	1
TOTAL	44

8.7. FINANCE

Financing of the FLNP Scientific Research Plan in 2001 (th. USD)

No.	Theme	Financing plan, \$ th.	Expenditures for 12 months, \$ th.	In % of FLNP budget
I	Condensed matter physics	4067.8	1979.8	48.7
	-1031-	2514.6	1186.2	47.2
	-0851-	929.2	483.3	52.0
	-1012-	624.0	310.3	49.7
II	Neutron nuclear physics	1121.4	618.0	55.1
	-1036-	647.6	420.1	64.9
	-0993-	473.8	197.9	41.8
III	Elementary particle physics			
	-1007-	6.2	20.0	322.5
IV	Relativistic nuclear physics			
	-1008-	41.6	8.8	21.1
V	TOTAL:	5237.0	2626.6	50.2