

Report on HISS Dubna
“Lattice QCD, Hadron Structure, and Hadronic Matter”
JINR, Dubna, Russia, September 5.-17., 2011



Bogoliubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research
Dubna International Advanced School of Theoretical Physics
Helmholtz International Summer School

Lattice QCD, Hadron Structure and Hadronic Matter

Dubna, Russia, September 5 - 17, 2011

Introduction to Lattice Gauge Theories
Hadron structure and spectroscopy
Nonzero temperature and baryon number density
Heavy quark physics
Beyond the Standard Model
Strong magnetic fields
Simulation algorithms and analysis techniques



GSI



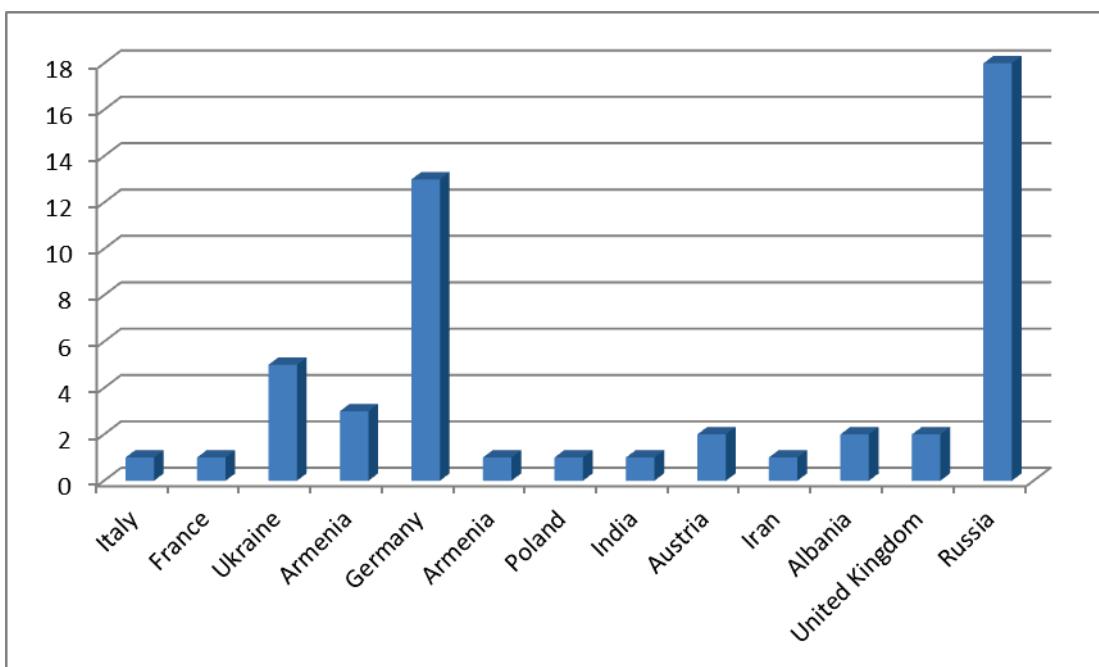
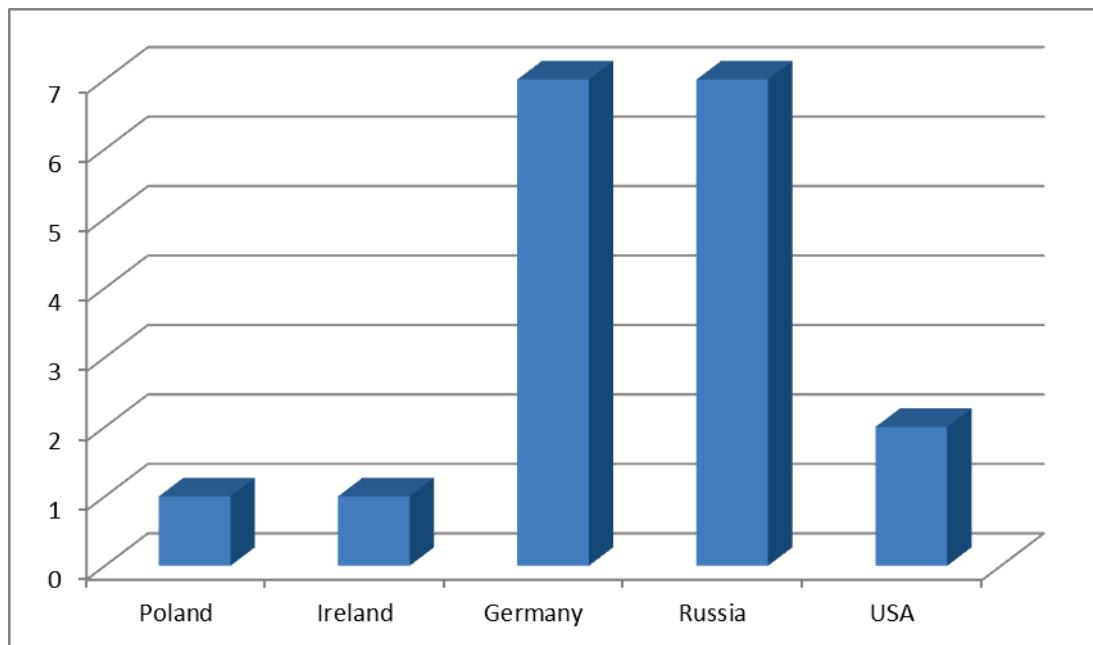
LECTURERS:

D. Blaschke (ITP, Uni. of Wroclaw & BLTP, JINR)
S. Catterall (Syracuse U.)
M. Goeckeler (ITP, Regensburg U.)
M. Mueller-Preussker (Humboldt U., Berlin)
K. Jansen (NIC, DESY, Zeuthen)
F. Karsch (Bielefeld U. & BNL)
D. I. Kazakov (BLTP, JINR)
M. Peardon (Trinity College, Dublin)
P. Petreczky (BNL)
M. Polikarpov (ITEP, Moscow)
M. Polyakov (S.-Pb. Nucl. Phys. Inst., Gatchina & Bochum U.)
A.V.Radyushkin (JLAB, USA & JINR, Dubna, Russia)
C. Schmidt (Frankfurt U. & GSI, Darmstadt)
R. Sommer (NIC, DESY, Zeuthen)
A. S. Sorin (BLTP, JINR)
O. V. Teryaev (BLTP, JINR)
C. Urbach (Bonn U.)
V. I. Zakharov (ITEP, Moscow)

ORGANIZERS:

R. Sommer (NIC, DESY, Zeuthen)
A. Sorin (JINR, Dubna)

Bogoliubov Laboratory of Theoretical Physics, Joint Institute for Nuclear Research
CONTACTS: 141980 Dubna, Russia; Phone: (+749621) 65084; e-mail: diastp@theor.jinr.ru
<http://theor.jinr.ru/~diastp/summer11>



DIAS-TH: Dubna International Advanced School of Theoretical Physics

Helmholtz International Summer School

"NUCLEAR THEORY AND ASTROPHYSICAL APPLICATIONS"

Bogoliubov Laboratory of Theoretical Physics
JOINT INSTITUTE FOR NUCLEAR RESEARCH
Dubna, Russia, July 24 - August 2, 2011

TOPICS:

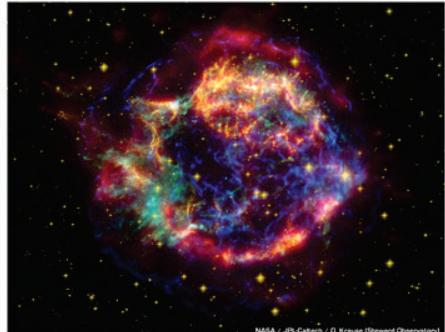
- terrestrial experiments for astrophysics,
- clusters and features of their structure and reactions,
- nuclear synthesis in stars,
- superfluidity in nuclei and neutron stars,
- neutrino interactions with nuclei / nuclear matter and supernovae,
- condensation and phase transitions in dense matter.

LECTURERS:

D. Bemmerer (Dresden)
R. Jolos (JINR)
E. Litvinova (GSI)
D. Nadyozhin (Moscow)
G. Roepke (Rostock)
F. Simkovic (JINR/Bratislava)
A. Vdovin (JINR)

H. Grigorian (Yerevan)
T. Klahn (Wroclaw)
J. Margueron (Orsay)
R. Reifarth (Frankfurt)
E. Saperstein (Moscow)
K. Sonnabend (Darmstadt)
D. Voskresensky (GSI/MEPhI)

H.-W. Hammer (Bonn)
H. Lenske (Giessen)
Jie Meng (Beijing)
F. Roepke (Garching)
H. Schulz (Dresden)
S. Typel (GSI)



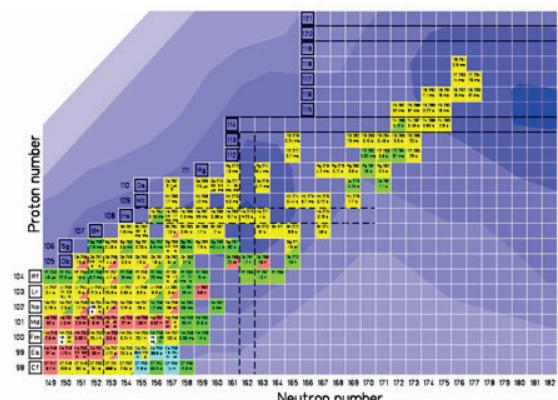
ORGANIZERS:

K. Langanke (GSI, Darmstadt),
V. Voronov (JINR, Dubna).

CONTACTS:

Prof. V. Voronov
Bogoliubov Laboratory of Theoretical Physics
Joint Institute for Nuclear Research
141980, Dubna, Moscow Region, Russia

FAX: +7 49621 65084
E-mail: ntta@theor.jinr.ru
WWW: <http://theor.jinr.ru/~ntaa/11/>



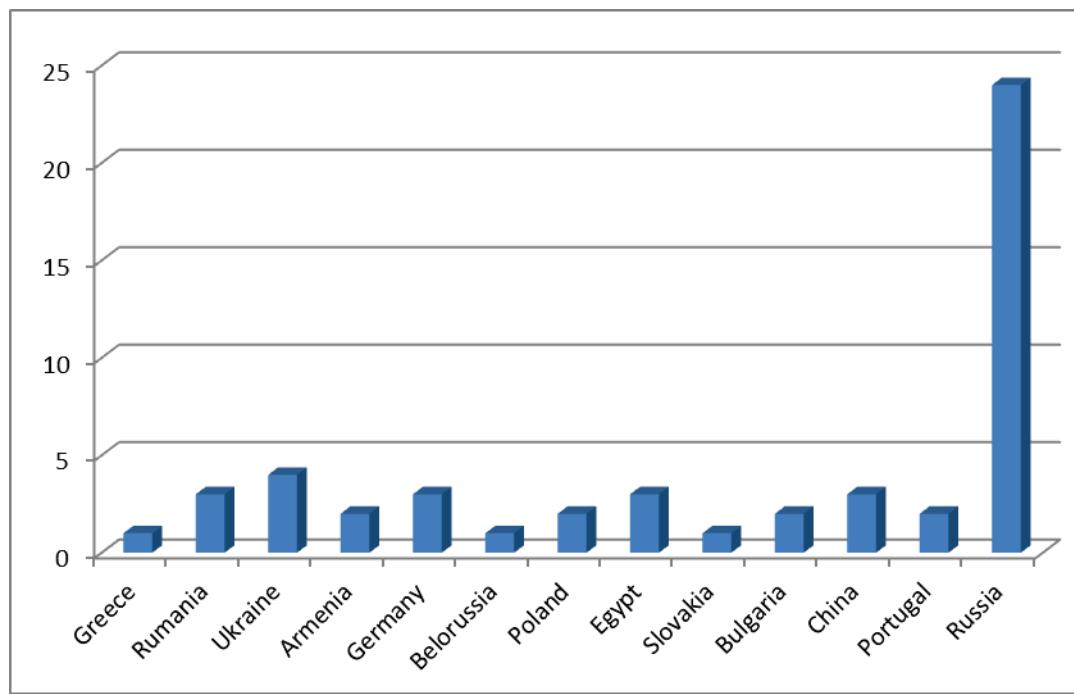
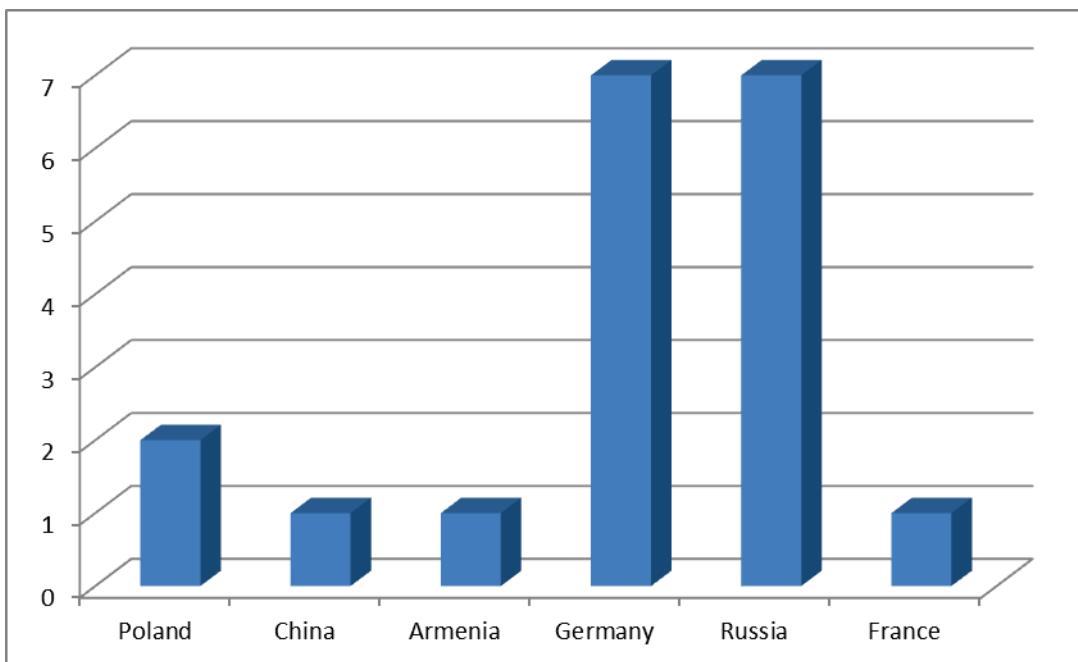
 HELMHOLTZ
ASSOCIATION



 RFBR

 GSI







Helmholtz International Summer School - HISS
Dubna International Advanced School of Theoretical Physics - DIAS TH

INTERNATIONAL SCHOOL-WORKSHOP “CALCULATIONS FOR MODERN AND FUTURE COLLIDERS”

July 23 - August 2, 2012, Dubna, Russia

TOPICS

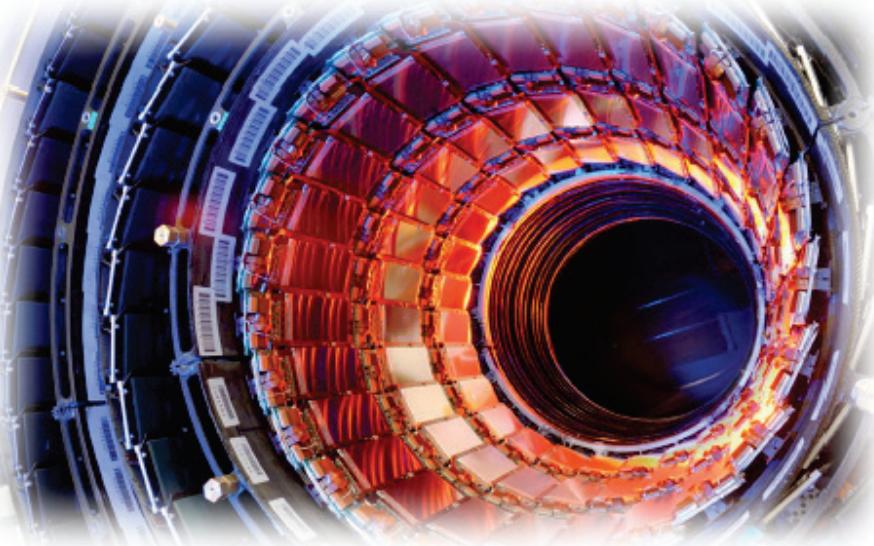
- Precision theoretical calculations for experiments at LHC and other modern colliders
- Methods of multiloop calculations and resummation
- Computer codes for calculations in high energy physics
- Theoretical predictions beyond the Standard Model
- Physical program of future experiments in high energy physics

LECTURERS

T. Hahn (Munich, Germany)
J. Henn (Princeton, USA)
F. Jegerlehner (Berlin & Zeuthen, Germany)
V. Klim (St. Petersburg, Russia)
S. Moch (Zeuthen, Germany)
M. Muehleitner (Karlsruhe, Germany)
A. Nisati (Rome, Italy)
G. Passarino (Torino, Italy)
F. Piccinini (Pavia, Italy)
S. Riemann (Zeuthen, Germany)

CONTACTS

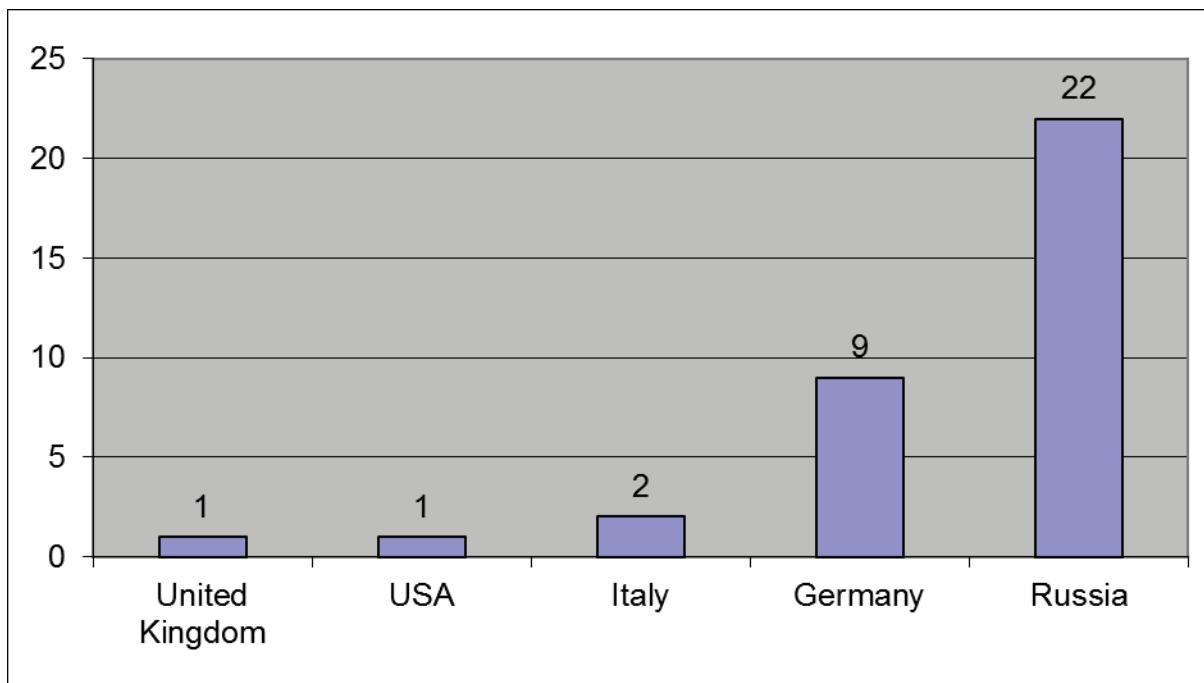
Dr. Andrej Arbuzov, calc2012@theor.jinr.ru
Visas, accommodation, transportation:
Olga Matyukhina, omatyukhina@jinr.ru
<http://theor.jinr.ru/~calc2012>



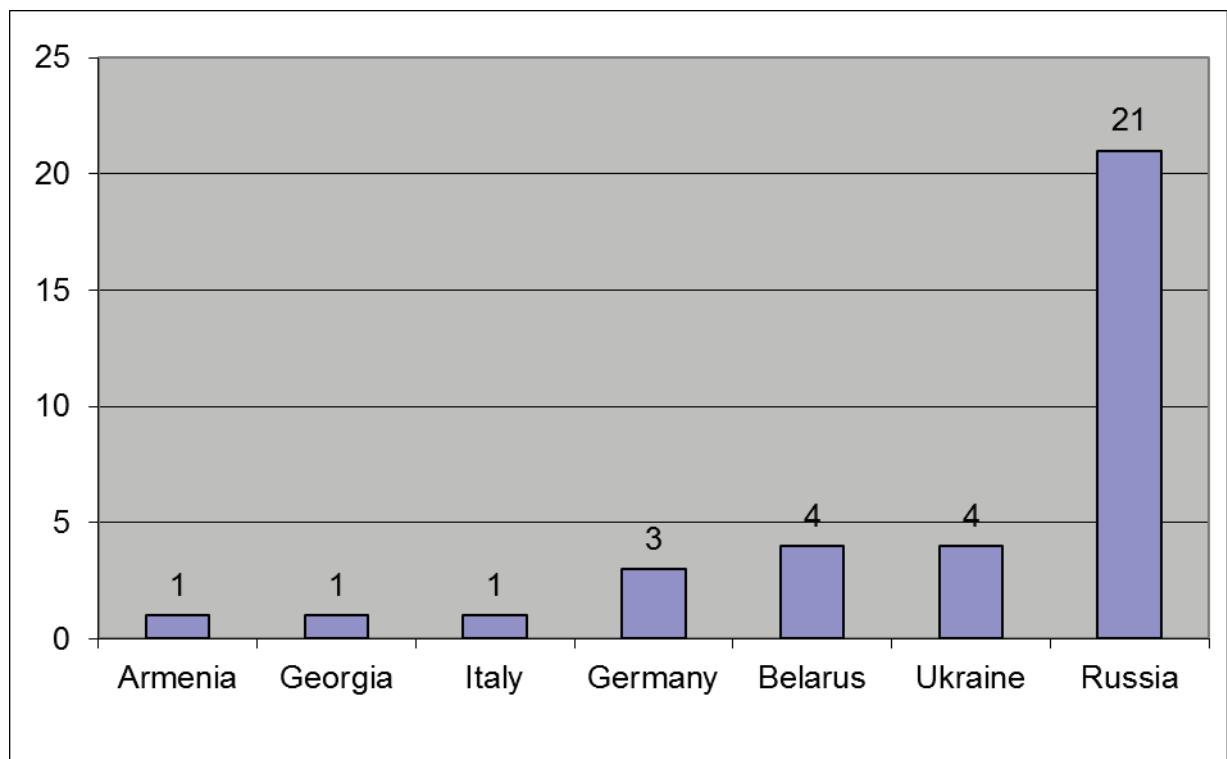
ORGANIZING COMMITTEE

D. Kazakov (JINR) – Chairman, T. Riemann (DESY, Zeuthen) – Co-Chairman, A. Arbuzov (JINR) – Sci Secretary,
O. Matyukhina (JINR) – Secretary, D. Bardin (JINR), A. Bednyakov (JINR), A. Gladyshev (JINR),
L. Kalinovskaya (JINR), S. Moch (DESY, Zeuthen), J. Schmelzer (JINR & Uni Rostock), I. Smirnova (JINR)

LECTURERS



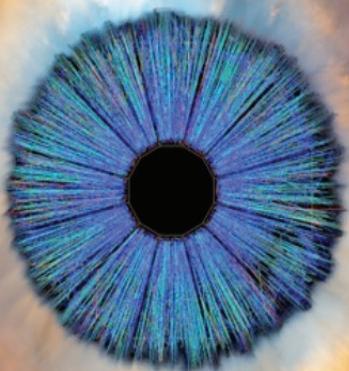
STUDENTS



DIAS-TH: Dubna International Advanced School for Theoretical Physics

Helmholtz International Summer School Dense Matter in Heavy Ion Collisions and Astrophysics: Theory and Experiment

Dubna, Russia, August 28 - September 8, 2012



Topics

- Equation of state & QCD phase transitions
- Transport properties in dense QCD matter
- Hadronization & freeze-out in heavy ion collisions (HIC)
- Astrophysics of compact stars (CS)
- Simulations of dense QCD, HIC and CS
- Experiments and observational programs

Organisers

H. Stöcker (GSI)
A. Sorin (JINR)
D. Blaschke (Wroclaw & JINR)

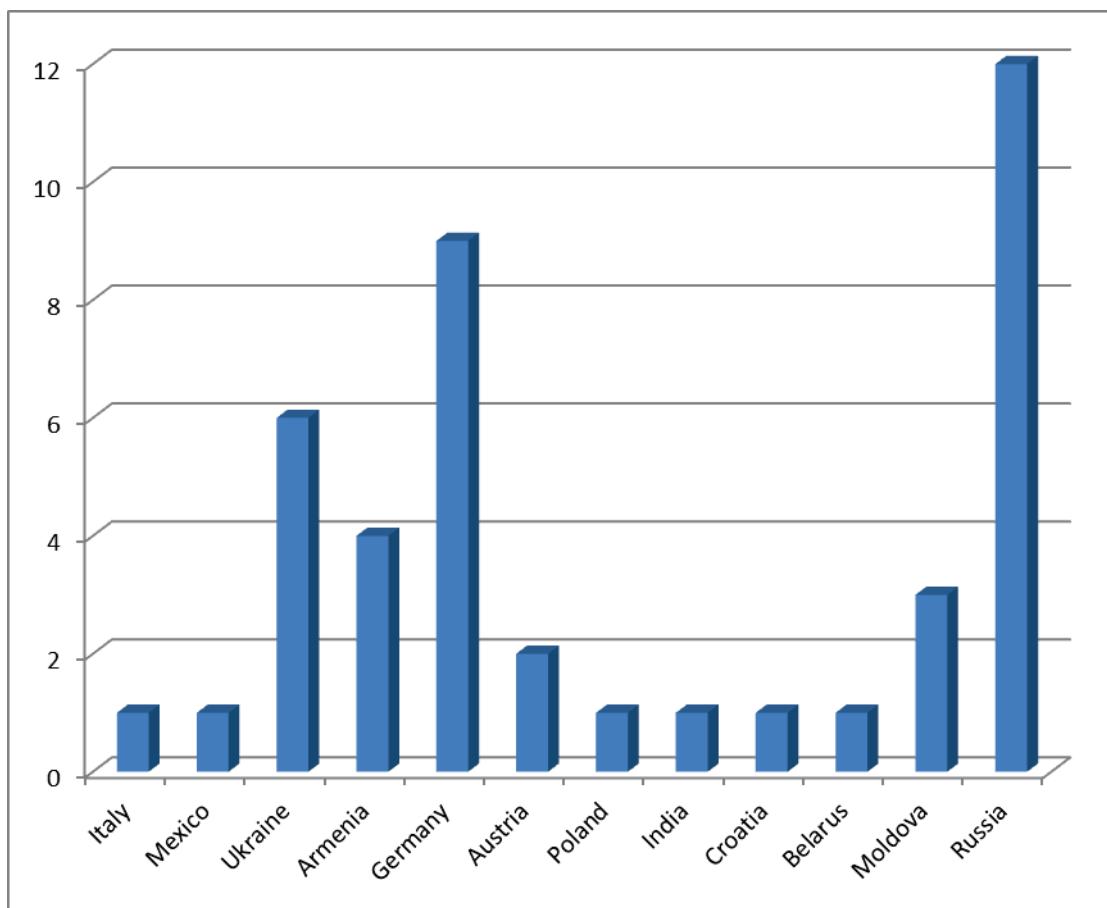
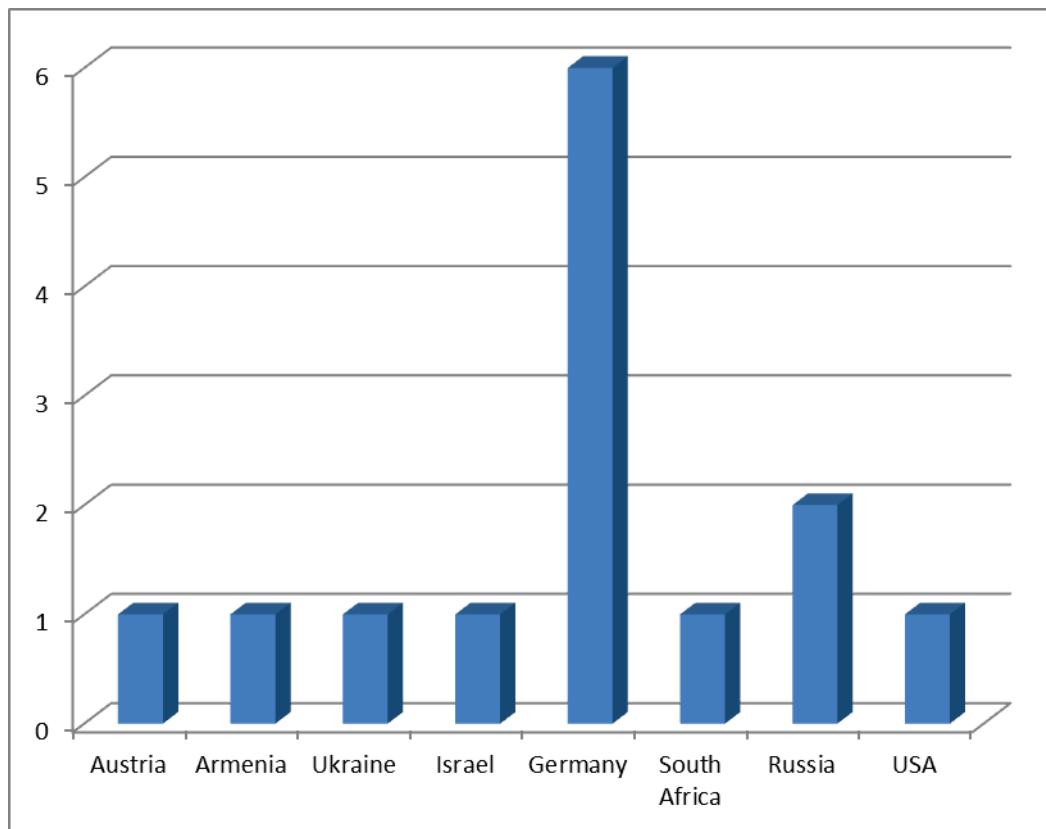
Local Organisers

V. Zhuravlev (JINR)
J. Schmelzer (Rostock & JINR)
A. Khvorostukhin (JINR)
A. Friesen (JINR)
V. Nesterenko (JINR)
V. Novikova (JINR)

Contact

dm12@theor.jinr.ru
<http://theor.jinr.ru/~dm12>





*Dubna International Advanced School of Theoretical Physics / DIAS-TH
Helmholtz International Summer School*

Physics of Heavy Quarks and Hadrons

BLTP, JINR, Dubna, Russia

July 15- 28, 2013



TOPICS:

Flavor physics and CP-violation

CKM-matrix

b-hadrons and their decays

Top quark physics: production and decays

Effective theories in heavy quark physics

New aspects of Quarkonia and

Quarkonia-like states

Modelling QCD

Co-organizers:

A. Ali (DESY)

M. A. Ivanov (BLTP JINR)

K. Peters (GSI)

CONTACT:

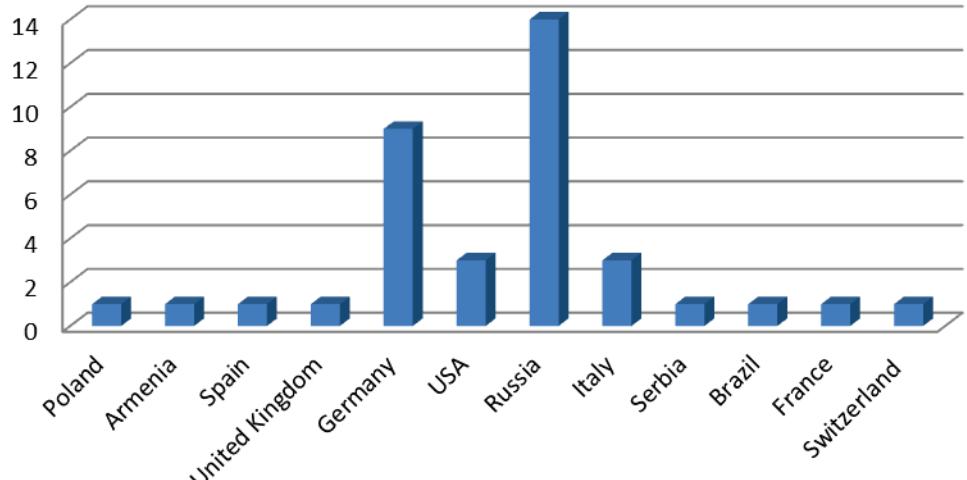
Prof. Mikhail Ivanov

e-mail: hq2013@theor.jinr.ru

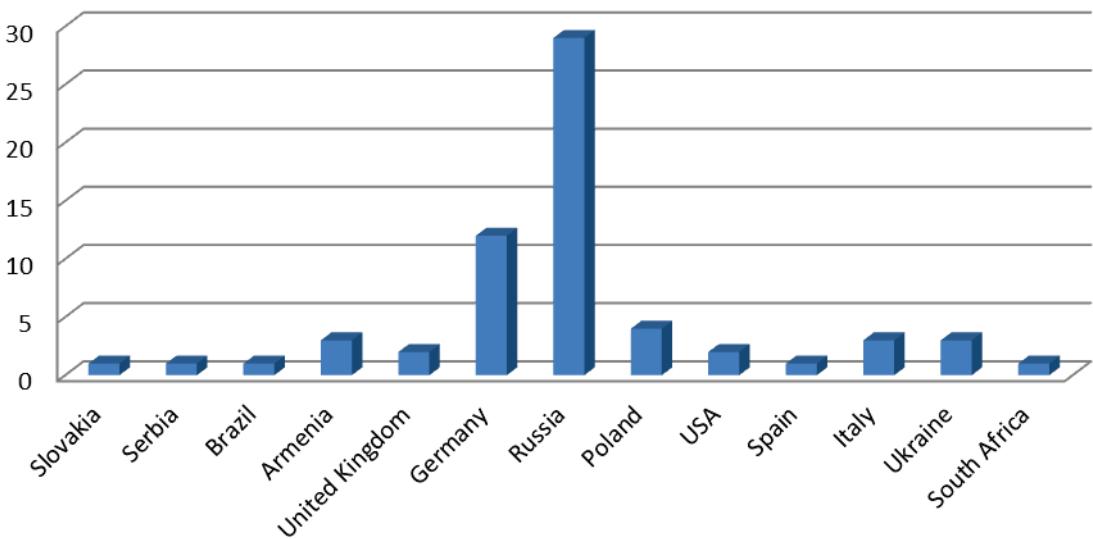
<http://theor.jinr.ru/~hq2013>



Lecturers



Students



Dubna International Advanced School of Theoretical Physics / DIAS-TH
Helmholtz International Summer School

COSMOLOGY STRINGS NEW PHYSICS

September 2-14, 2013

BLTP JINR, Dubna, Russia

Advances in
supersymmetric gauge theories

Higher Spin Theories

A-theorem and RG flows in various dimensions

Gravity, (super)symmetries, integrability

Status of new physics at LHC
Cosmology and high energy physics

Inflationary cosmology and alternatives

Dark energy and modified gravity

Organizers

A. Filippov (JINR, Dubna)
V. Schomerus (DESY, Hamburg)

Lecturers

E. Boos (SINP MSU, Moscow)
P. Fre (TU, Torino)
D. Gorbunov (INR RAS, Moscow)
H. Johansson (CERN, Geneva)
Z. Komargodski (WIS, Rehovot & IAS, Princeton)
A. Mironov (ITEP, Moscow)
V. Rubakov (INR RAS, Moscow)
H. Samtleben (ENS, Lyon)
A. Starobinsky (ITP RAS, Moscow)
M. Vasiliev (LPI RAS, Moscow)

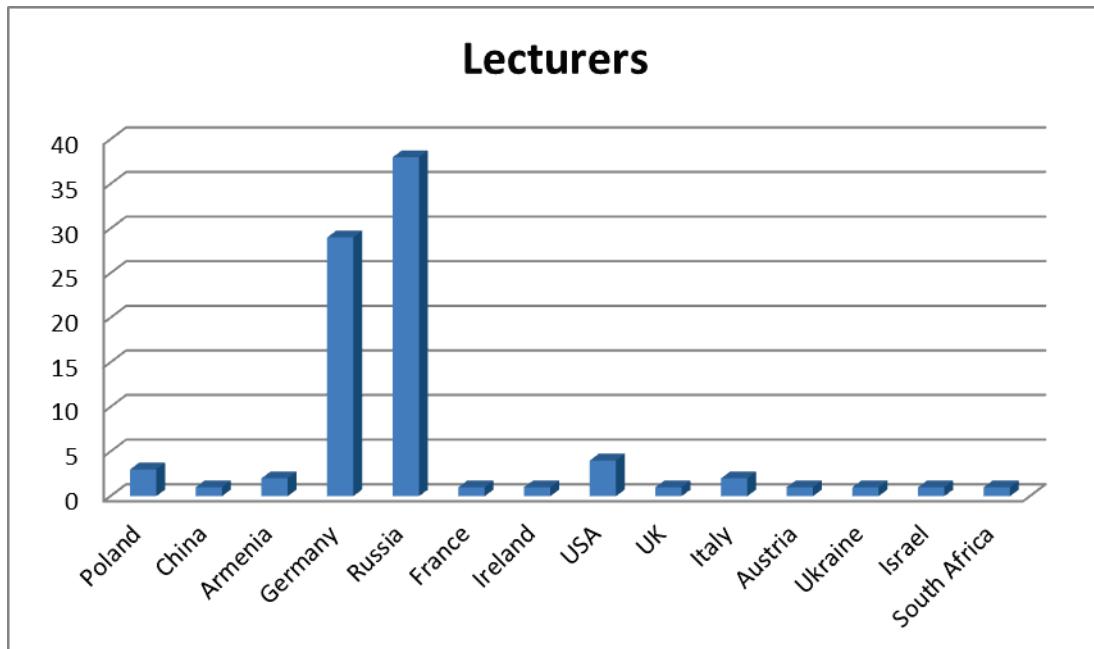
Contact

e-mail: diastp@theor.jinr.ru
<http://theor.jinr.ru/~diastp/summer13>

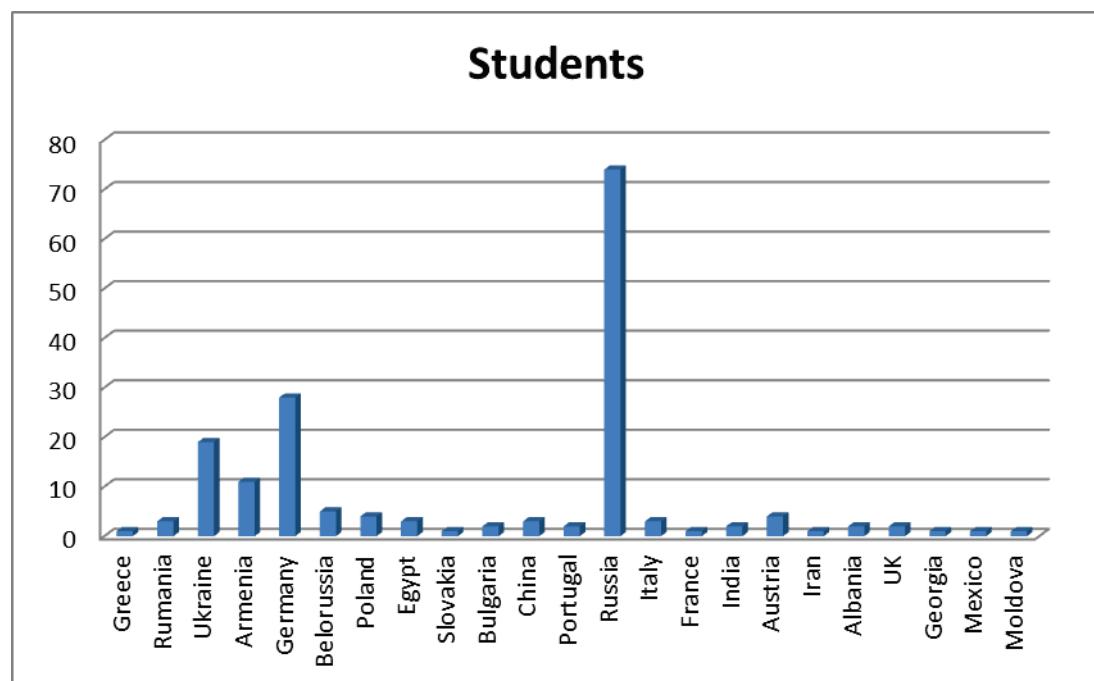


Bogoliubov Laboratory of Theoretical Physics
Joint Institute for Nuclear Research

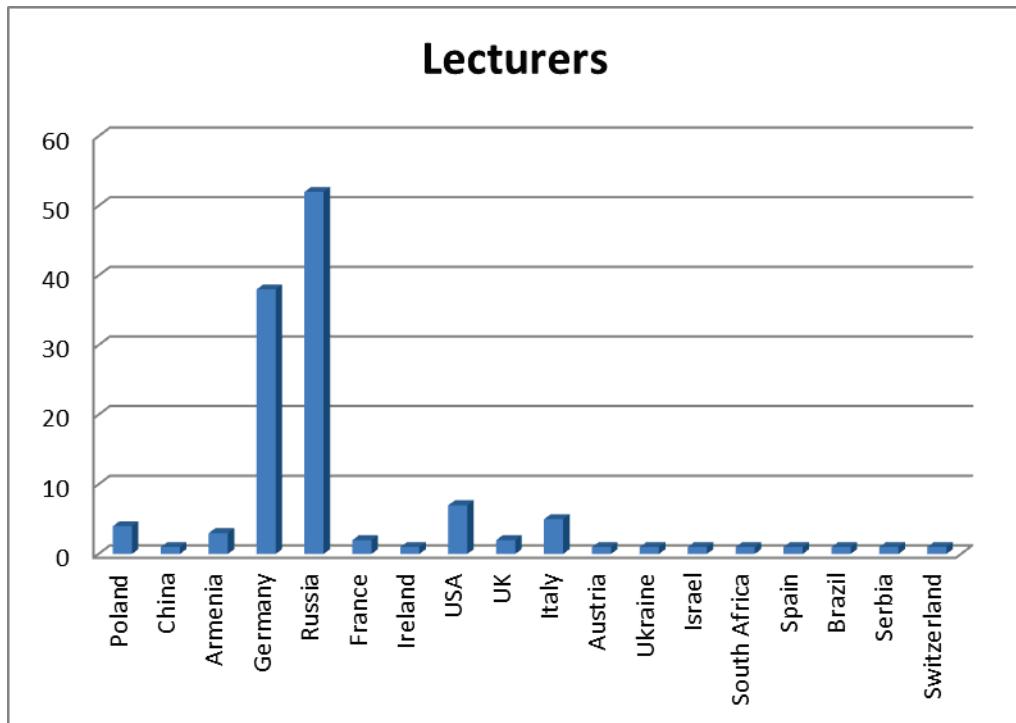
Lecturers 2011-2012



Students 2011-2012



Lecturers 2011-2013 (tentative)



Students 2011-2013 (tentative)

