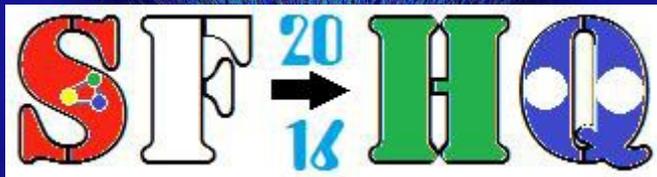


WELCOME !

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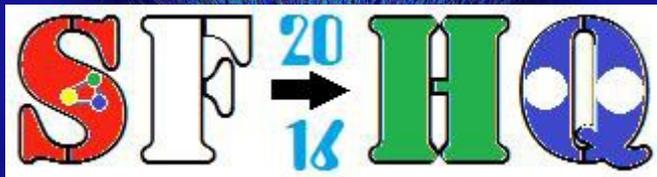
Quantum Field Theory at the Limits:
From Strong Fields to Heavy Quarks

Bogoliubov Laboratory of Theoretical Physics,
Joint Institute for Nuclear Research, July 18-30, 2016

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Quantum Field Theory at the Limits:
From Strong Fields to Heavy Quarks

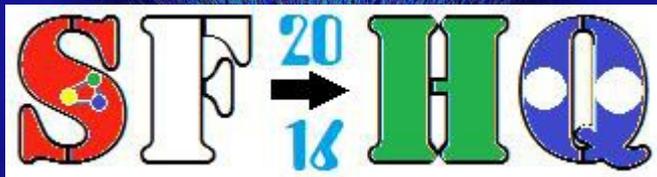
Bogoliubov Laboratory of Theoretical Physics,
Joint Institute for Nuclear Research, July 18-30, 2016

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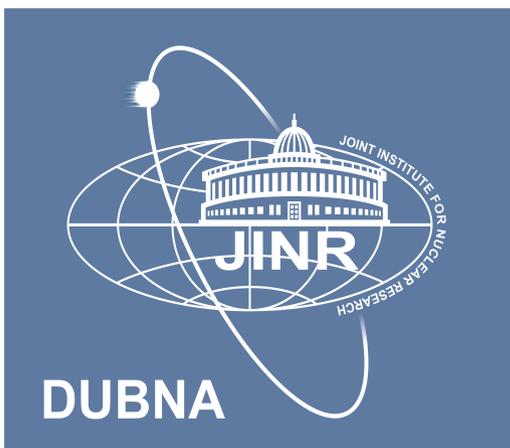
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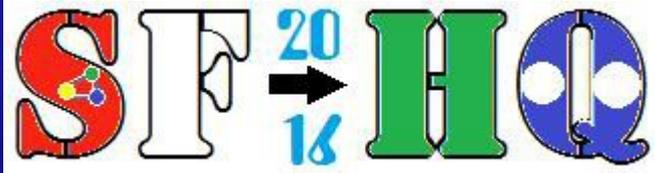
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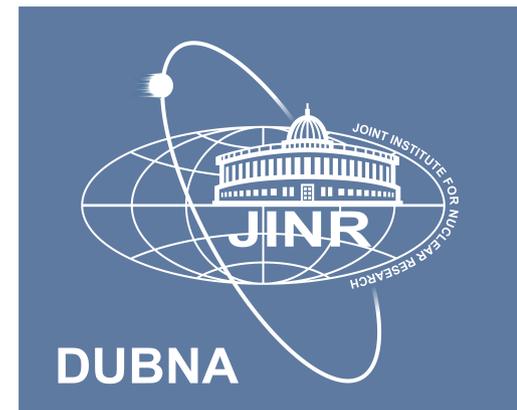


Quantum Field Theory at the Limits:
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Bogoliubov Laboratory of Theoretical Physics,
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Karlsruher Institut für Technologie

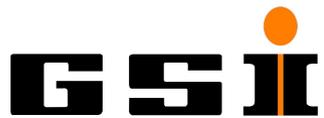


HELMHOLTZ INTERNATIONAL SUMMER SCHOOL

Dubna International Advanced School of Theoretical Physics / DIAS-TH

HISS Dubna

- Created in 2004
- 6 schools in 3 years
- Funding:
 - Helmholtz President
 - DESY + GSI
 - JINR
- 15 Lecturers/ 50 Students
- 10 days + weekend



The First School: Hot points in Astrophysics (2004)

- 29 Stud. from Russia, Belarus, Armenia, Germany, Italy, Poland, Croatia, Japan
- 25 Students from JINR Dubna
- 13 Lecturers from Russia, Ukraine
- 12 lecturers from Germany, Italy, Poland, Korea, Japan, USA
- Lecture notes printed at JINR Dubna Press



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Startup Topics from the field “Structure of Matter” (2004 - 2006):

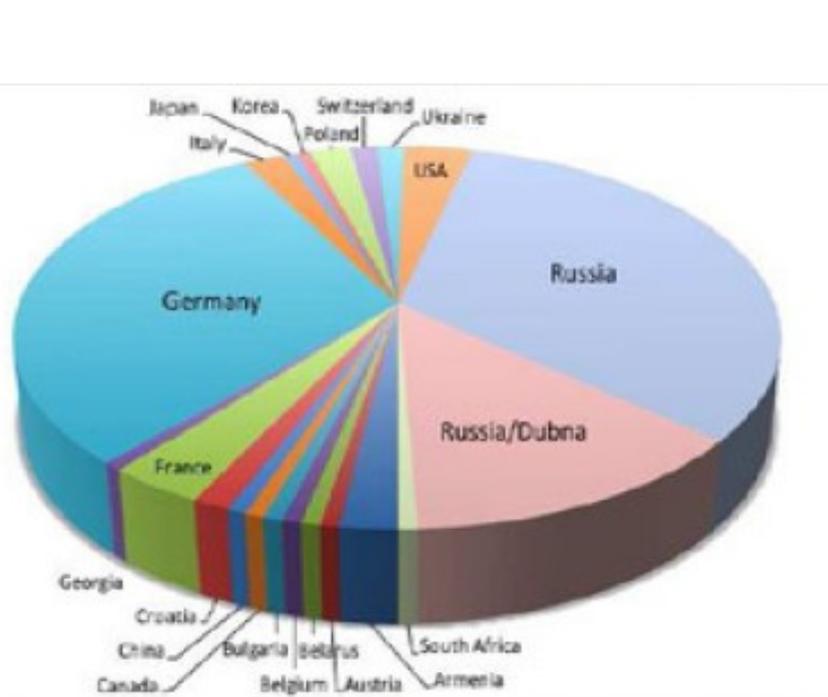
1. Hot Points in Astrophysics and Cosmology (2004) – Belyaev & Blaschke
2. Heavy Quark Physics (2005) – Ali & Ivanov
3. Modern Mathematical Physics (2005) – Lechtenfeld & Filippov
4. Nuclear Theory and Astrophysical Appl. (2005) – Langanke & Voronov
5. Calculations for Modern & Future Colliders (2006) – Riemann & Kazakov
6. Dense Matter in HIC & Astro. (2006) – Wambach & Blaschke & Voronov

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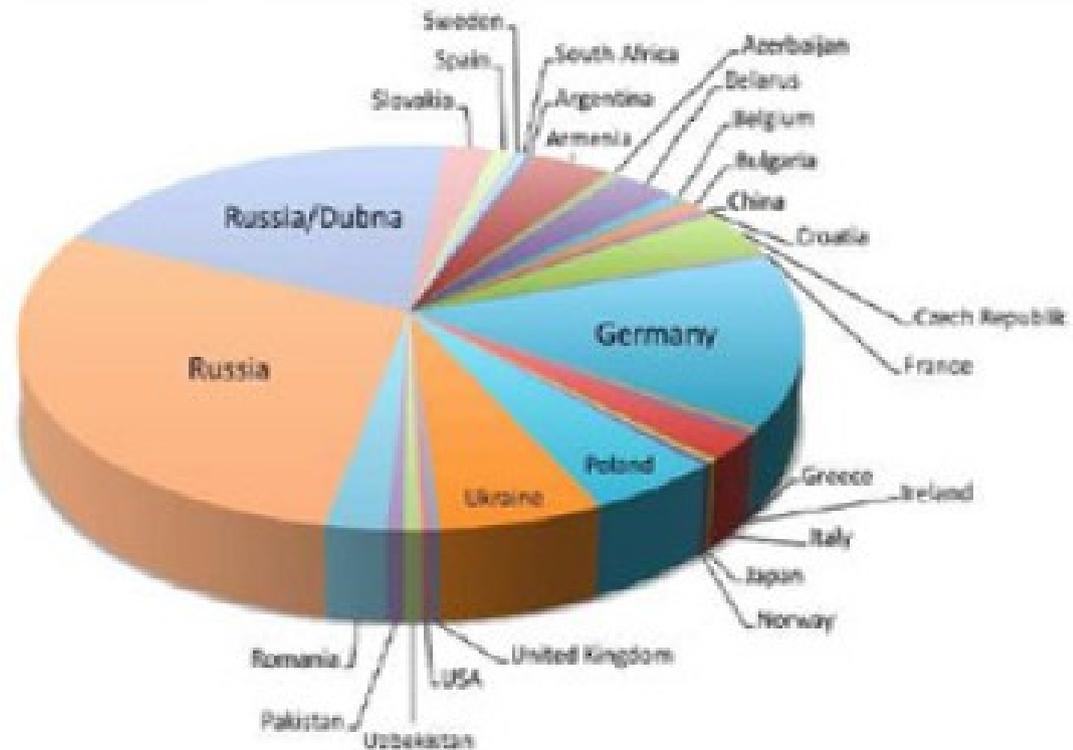
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Statistics of Six Helmholtz International Summer Schools (2004 - 2006)



Total lecturers: 147



Total Students: 315

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JINR Mega-Science Project: NICA

<http://theor.jinr.ru/twiki-cgi/view/NICA/WebHome>



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The Present and the Future of HISS Dubna

Cooperation Agreement between Helmholtz Centres
And Institutes and JINR Dubna (2014 - 2016)



Cooperation Agreement

between

the Joint Institute for Nuclear Research (JINR) in Dubna, Russian Federation

and

the Deutsches Elektronen-Synchrotron - DESY,

the Facility for Antiproton and Ion Research (FAIR) GmbH Darmstadt with

the FAIR-Russia Research Center (FRRRC) in Moscow, Russian Federation,

the Forschungszentrum Jülich GmbH,

the GSI Helmholtz Center for Heavy Ion Research GmbH with

the Helmholtz Institute Jena and the Helmholtz Institute Mainz,

the Helmholtz-Zentrum Dresden - Rossendorf,

the Karlsruhe Institute for Technology

- HCs -

on the

Collaboration in the Planning and Conduction of the HISS Helmholtz
International Summer Schools in Dubna 2014 – 2016

Dated 04.11.2014

Bogoliubov Laboratory of Theoretical Physics,
Joint Institute for Nuclear Research, July 18-30, 2016

HELMHOLTZ INTERNATIONAL SUMMER SCHOOL

Dubna International Advanced School of Theoretical Physics / DIAS-TH

- Title:** Nuclear Theory and Astrophysical Applications
Organizers: J. Margueron (IPN Lyon), G. Martinez-Pinedo (GSI & TU Darmstadt), V. Voronov (JINR Dubna)
Website: <http://theor.jinr.ru/~ntaa/14>
Termin: 20.07.-01.08. 2014
- Title:** Lattice QCD, Hadron Structure and Hadronic Matter
Organizers: M. Ilgenfritz (JINR Dubna), O. Philipsen (Uni Frankfurt), O. Teryaev (JINR Dubna)
Website: <http://theor.jinr.ru/~diastp/summer14>
Termin: 25.08.-06.09. 2014
- Title:** Matter under Extreme Conditions in Heavy-Ion Collisions and Astrophysics
Organizers: D. Blaschke (JINR Dubna, Uni Wroclaw), M. Bleicher (FIAS, HIC-for-FAIR), A.T. Filippov (JINR Dubna), B. Sharkov (FAIR Darmstadt & FRRC Moscow), A. S. Sorin (JINR Dubna)
Termin: 2015
- Title:** Modern Colliders - Theory and Experiments
Organizers: D. Bardin, D. Kazakov (JINR Dubna), K. Melnikov (KIT Karlsruhe), J. Reuter (DESY Hamburg)
Termin: 2015
- Title:** Quantum Field Theory at the Limits: from Strong Fields to Heavy Quarks
Organizers: A. Ali (DESY Hamburg), D. Blaschke (JINR Dubna, Uni Wroclaw), H. Gies (HI Jena), M. Ivanov (JINR Dubna), K. Peters (GSI Darmstadt)
Termin: 2016
- Title:** Cosmology, Strings and New Physics
Organizers: A. Filippov (JINR Dubna), F.R. Klinkhamer (KIT Karlsruhe), V. Rubakov (INR Moscow), V. Schomerus (DESY Hamburg), A. Starobinsky (Landau Inst. & JINR Dubna)
Termin: 2016

Cooperation Agreement

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the Helmholtz Institute Jena and the Helmholtz Institute Mainz,

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Collaboration in the Planning and Conduction of the HISS Helmholtz
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Joint Institute for Nuclear Research, July 18-30, 2016

HELMHOLTZ INTERNATIONAL SUMMER SCHOOL

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Helmholtz International Summer School "Nuclear Theory and Astrophysical Applications"
BLTP JINR, Dubna, Russia, July 21 - August 1, 2014

Bogoliubov Laboratory of Theoretical Physics,
Joint Institute for Nuclear Research, July 18-30, 2016

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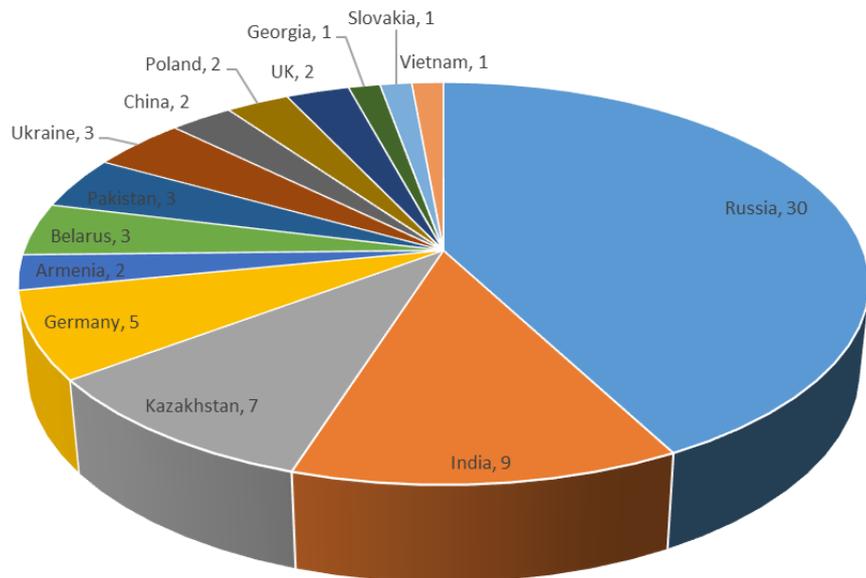


Bogoliubov Laboratory of Theoretical Physics,
Joint Institute for Nuclear Research, July 18-30, 2016

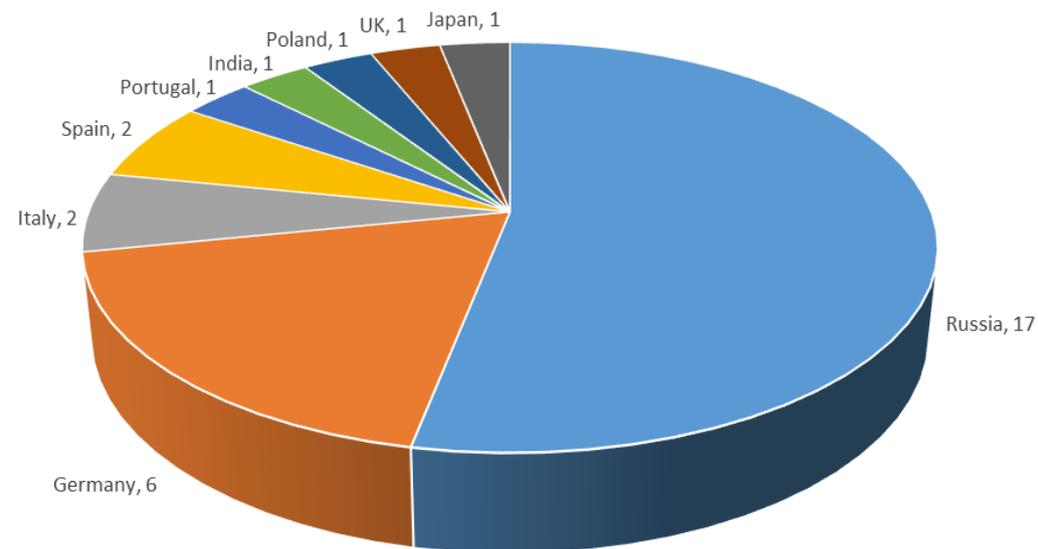
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Statistics for Quantum Field Theory at the Limits 2016



Participants - 71



Lecturers - 32

Bogoliubov Laboratory of Theoretical Physics,
Joint Institute for Nuclear Research, July 18-30, 2016

HELMHOLTZ INTERNATIONAL SUMMER SCHOOL

Dubna International Advanced School of Theoretical Physics / DIAS-TH

time	Mon, 18	Tue, 19	Wed, 20	Thu, 21	Fri, 22
10:00-11:00	Zwicky	Zwicky	Zwicky	Koerner	Grozin
11:00-11:30	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
11:30-12:30	Karbstein	Blaschke	Karbstein	Karbstein	Grozin
12:30-13:30	Fedotov	Fedotov	Lyubovitskij	Seipt	Seipt
13:30-15:00	Lunch	Lunch	Lunch	Lunch	Lunch
15:00-16:00	Str. F.-exer.	Str. F.-exer.	Str. F.-exer.	Grozin	Ivanov
16:00-16:30	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
16:30-17:30	Smolyansky	Titov	NICA	Galkin	Parkhomenko
17:30-18:00	Bednyakov	Rathaud	NICA	Aslam	Tran
18:00-18:30	Devlani	Kher	NICA	Ahmed	Rehman

Bogoliubov Laboratory of Theoretical Physics,
Joint Institute for Nuclear Research, July 18-30, 2016

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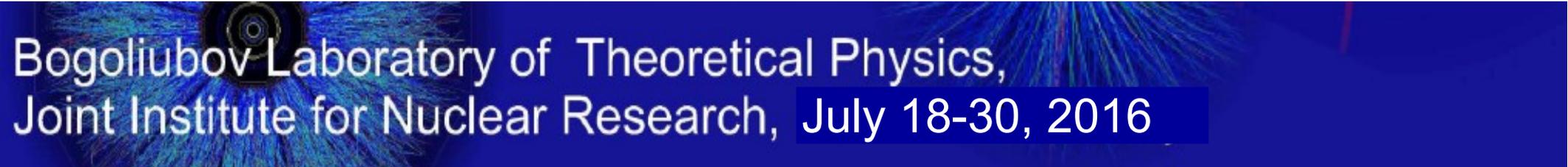
time	Mon, 25	Tue, 26	Wed, 27	Thu, 28	Fri, 29
10:00-11:00	Ali	Ali	Ali	Garcia (ATLAS)	Adeva (LHCb)
11:00-11:30	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
11:30-12:30	Takizawa (Belle)	A.Zhemchugov (BESIII)	Czakov	Czakov	Ilgenfritz
12:30-13:30	Krasnikov	Czakov	Colangelo	Colangelo	Nedelko
13:30-15:00	Lunch	Lunch	Lunch	Lunch	Lunch
15:00-16:00	Leonardo (CMS)	Sinha	Sinha	Faustov	Kochelev
16:00-16:30	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
16:30-17:30	Santorelli		Saleev	Kotikov	Surovcev
17:30-18:00	Lykasov	Nefedov	E.Zhemchugov	Issadykov	
18:00-18:30	Lykasov	Korchagin	Voronin	Klopot	

Bogoliubov Laboratory of Theoretical Physics,
Joint Institute for Nuclear Research, July 18-30, 2016



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Bogoliubov Laboratory of Theoretical Physics,
Joint Institute for Nuclear Research, July 18-30, 2016