

Moscow State University



TWENTY- SECOND LOMONOSOV



CONFERENCE ON Moscow, August 21 - 27, 2025

ELEMENTARY Mikhail Lomonosov PARTICLE

Tests of Standard Model & Beyond Theories Beyond Standard Model **Neutrino Physics** Astroparticle Physics **Electroweak Theory Gravitation and Cosmology** Developments in QCD **Heavy Quark Physics Physics at Future Accelerators**

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XVII International School on Neutrino Physics and Astrophysics

> August 22 - 25, 2025 Under the patronage of V. Sadovnichy

> > Rector of MSU

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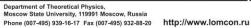
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For contacts: Alexander Studenikin, Chairman Scientific Secretaries: Konstantin Stankevich, Fedor Lazarev, Artem Popov and Vladislav Motovilov e-mail: lomcon@phys.msu.ru



22nd Lomonosov Conference on Elementary Particle Physics

Moscow State University, 21-27 August 2025, Moscow, Russia

33 years of running since 1992

www.lomcon.ru





22nd Lomonosov Conference on Elementary Particle Physics is organized by Faculty of Physics of Moscow State University under the patronage of Rector of MSU Academician Victor Sadovnichy



М.В. Ломоносова (1711-1765)

This is the 22nd event in the series that started in 1992 when the conference got the name of Mikhail Lomonosov

... brilliant Russian encyclopaedist of the era of the Empress Catherine II



Moscow State University was founded 270 years ago based on his plan and initiative

 By holding 22nd Lomonosov Conference, we are celebrating

270th Anniversary of Moscow University







Academician Andrey Fedyanin Vice Rector of MSU





We are thankful to Professor Vladimir Belokurov, Dean of Faculty of Physics, for the support of organizing committee during a period of many months of the conference preparation

22th Lomonosov Conference on Elementary Particle Physics

... in closed cooperation with



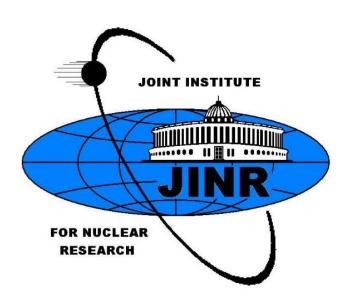
Joint Institute for Nuclear Research (Dubna)



Institute for Nuclear Research of Russian Academy of Sciences







Academician Grigory TrubnikovDirector of JINR

Moscow State University Faculty of Physics

Dedicated to the 270th Anniversary of Moscow State University

TWENTY - SECOND LOMONOSOV

CONFERENCE

Moscow, August 21-27, 2025

PARTICLE PHYSICS

Faculty of Physics, Moscow State University
Joint Institute for Nuclear Research
Institute for Nuclear Research Russian Academy of Sciences
Skobeltsyn Institute of Nuclear Research, Moscow State University
Bruno Pontecorvo Neutrino and Astrophysics Laboratory (MSU)
Ministry of Science and Higher Education of Russia
State Corporation ROSATOM
All-Russian Scientific Research Institute of Experimental Physics
National Centre for Physics and Mathematics (Sarov)

Moscow State University Faculty of Physics



Бруно Понтекоры

SEVENTEENTH INTERNATIONAL SCHOOL

Moscow, August 22-27, 2025

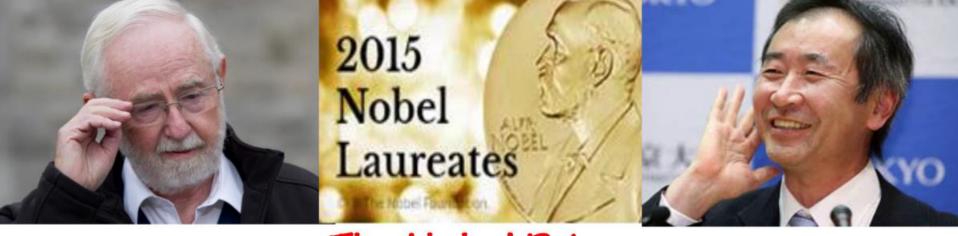
NEUTRINO
PHYSICS and
ASTROPHYSICS

Faculty of Physics, Moscow State University
Joint Institute for Nuclear Research
Institute for Nuclear Research of Russian Academy of Sciences
Skobeltsyn Institute of Nuclear Research, Moscow State University
Bruno Pontecoryo Neutrino and Astrophysics Laboratory (MSU)



Dedicated to the 10th Anniversary of Nobel Prize 2015 in physics

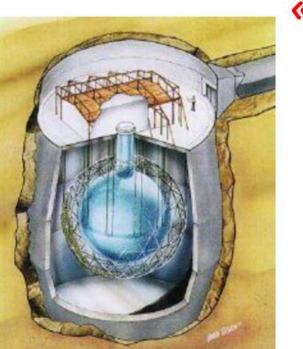




Arthur McDonald

The Nobel Prize in Physics 2015

Takaaki Kajita

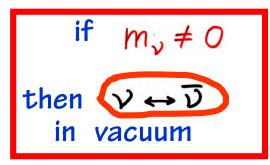


"for the discovery of neutrino oscillations, which shows that neutrinos have mass"





Staff member at Faculty of Physics of Moscow State University 1966-1986



Bruno Pontecorvo,

 \ll Inverse β processes and nonconcervation of leptonic charge»,

JINR Preprint P-95, Dubna, 1957

3 pages:

68 years of mixing and oscillations

«Neutrinos in vacuum can transform themselves into antineutrino and vice versa. This means that neutrino and antineutrino are particle mixtures... So, for example, a beam of neutral leptons from a reactor which at first consists mainly of antineutrinos will change its composition and at a certain distance R from the reactor will be composed of neutrino and antineutrino in equal quantities».

- Since 1950 Bruno Pontecorvo
 lived in Dubna and was a staff member of
 Joint Institute for Nuclear Research
- During 1966 1986
 Bruno Pontecorvo was Head of
 Department of Particle Physics
 at Faculty of Physics of Moscow State
 University

August 22, 2025 19.00

The movie «Maksimovic.

The Story of Bruno Pontecorvo»

Original idea and screenplay:

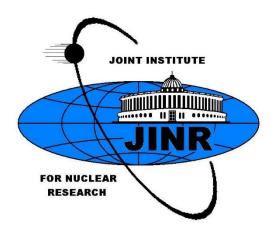
Giuseppe Mussardo

Historical research:

Luisa Bonolis

Directed by:

Diego Cenetiempo







Director of Dzelepov Laboratory of Nuclear Problems of JINR Professor Eugeny Yakushev

Федеральное государственное бюджетное учреждение науки

ИНСТИТУТ ЯДЕРНЫХ ИССЛЕДОВАНИЙ

РОССИЙСКОЙ АКАДЕМИИ НАУК

The Institute for Nuclear Research of the Russian Academy of Sciences





We are thankful to Academician Maxim Libanov, Director of Institute for Nuclear Research of RAS, for the support provided in very important issue in preparation of the conference

Vice Director of INR RASProfessor Alexander Panin







It is a great honour for me to give floor to

Professor Arkady Yukhimchuk from Russian Nuclear Centre &

National Centre for Physics and Mathematics (Sarov)

















Lomonosov Conferences on Elementary Particle Physics

since 1992

... short prehistory of Lomonosov Conferences (since 1992)

- in 80th a series of 4 workshops for young scientists "Synchrotron radiation and its applications" was organized by Moscow State University
- at 4th Workshop in 1988 the organizers decided to complete realization of these workshops
- a year later (1989) it was proposed by myself to renew that series of events on a new basis with much broader scientific programme and to include more general issues of particle physics
- the conference was planned to be held in September 1991 in world famous Samarkand

(Uzbekistan - Soviet Union),

• ... was canceled because of unstable and unpredictable political situation (Putsch in Soviet Union, August 1991)

- the project of a new meeting was not given up and the conference on "Elementary Particles and External Fields" was organized by Moscow State University in Yaroslavl (Russia), April 1992
- during preparation of that conference it was proposed by myself that we should start a series of full-scale international conferences under the title of

"Lomonosov Conference on Elementary Particle Physics"

... the birth of Lomonosov Conferences ...

 this story has been included into the preamble of the Yaroslavl conference 1992 programme

(is on view at the coffee-break hall)

✓ ШКОЛА МОЛОДЫХ УЧЕНЫХ МГУ "ЭЛЕМЕНТАРНЫЕ ЧАСТИЦЫ И ВНЕШНИЕ ПОЛЯ"

▼ MOSCOW UNIVERSITY CONFERENCE "ELEMENTARY PARTICLES AND EXTERNAL FIELDS"

Ярославль, 20-25 апреля 1992 г.

Московский государственный университет им. М.В. Ломоносова Ярославский государственный университет ТОО "ABE"

Организационный комитет

(ФРИЛ) малерия. А. А.

В.Г.Багров (ИСЭ СО РАН)

В.А.Бриханов (Яр.ГУ)

В. Ч. Нуковский (ИГУ)

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А.Д.Смирнов (Яр.ГЧ)

А.И.Студеникин (МГУ) - ученый секретарь

И.М.Тернов (МГУ) - председатель

Настоящая вкола молодых ученых МГУ является пятой в серии конференций (Москва, 1983; Кивинев, 1985; Майкоп, 1989; Минск, 1990), проводиных кафедрой теоретической физики физического факультета МГУ при содействии совета молодых ученых МГУ. По первоначальному замислу организаторов на конференциях долгна била обсуждаться проблема квантовых процессов во внешних электромагнитных полях, однако уже со второй конференции (1985 г.) отчетилься отостоятелься тенления и распирению текстики. В программ тре последних конференций наряду с вышеназванной проблемой включается прокий круг вопросов физики элементарных частиц, теории поля, гравитатии и астрофизики. В дальнейшем данная серия будет продолжена под общим названием "Ломоносовские конференции по физике элементарных частиц". Пестая Ломоносовская конференция, запланированная на осень 1993 года, быто посвящена вопросам космомикрофизики и калибровочным теориям

Технический секретариат: Люба Василевская, Маргарита Лена Мерзонова, Марина Геннадиевна Невзорова и Александр Пархова

Programme of

"5th School of Young Scientists of Moscow State University on Elementary Particles and External Fields"

> Yaroslavl, Russia, April 20-25, 1992

of conferences will be continued under the title "Lomonosov Conference on Elementary Particle Physics".

The 6th Lomonosov Conference will be organized in 1993."

ЗАСЕДАНИЕ 7: 11.35-13.50 (председатель В.А.Царев)

Л.А.Василевская, А.А.Гвоздев, Н.В.Михеев:

Физика массивних нейтрино во внешних электромагнитных полях (15 мин.).

D.Giugni:

Probing the Sun: Borexino experiment (30 min).

О.А.Займидорога:

Измерение магнитного момента нейтрино на уровне 10 магнетона Бора (30 мин.).

Uitiello:

Маssive neutrinos, their oscillations and unitary inequivalent representation (30 min).

А.В.Кузнецов, Н.В.Михеев:

Тормозное излучение при рассеянии нейтрино в поле кулоновского центра (15 мин.).

ОБЕД: 14.00

30 presentations

закрытие конференции : 19.00 .

СПИСОК УЧАСТНИКОВ КОНФЕРЕНЦИИ

Артимович Геннадий Константинович (Филиал ЭТИ)

 Займидорога Олег Антонович (ОИЯИ) Каратаева Инна Юрьевна (ИСЭ СО РАН) Климчицкая Галина Леонидовна (СВПИ) Кондратьева Маргарита Федоровна (МИЗМ) Кречет Владимир Гергиевич (Яр.ПИ) Круглов Сергей Ильич (Белорусский ИМСХ) Кузнецов Александр Васильевич (Яр.ГУ) Лебедев Сергей Львович (Чувашский ПИ) Лихачев Геннадий Геннадиевич (МГУ) Лобанов Андрей Евгеньевич (МГУ) Мерзонова Елена Владимировна (МГУ) Михеев Николай Владимирович (Яр.ГУ) Мостепаненко Владимир Михайлович (СПТИ) Никишов Анатолий Ильич (ФИРАН) Обухов Валерий Владимирович (ИСЭ СО РАН) Пархоменко Александр Яковлевич (Яр.ГУ) Першин Владимир Демьянович (ТГУ) Рогова Анна Марксовна (ТГУ) 50 participants Святовой Виталий Борисович (ИМАН) Скобелев Владимир Васильевич (МГЗПИ) Смирнов Александр Дмитриевич (Яр.ГУ) Spillantini Piero (INFN-Florence, Italy) Старинец Андрей Олегович (МГУ) Студеникин Александр Иванович (МГУ) Трифонов Андрей Юрьевич (ТПИ) Тернов Игорь Михайлович (МГУ) Тяпкин Алексей Алексеевич (ОИЯИ) Фачстов Рудольф Николаевич (НСК РАН) Федотов Михаил Валентинович (МГУ) Филиппов Геннадий Михайлович (Чувашский ГУ) Фильченков Михаил Леонидович (МНТП "Брейнштурм") Харитон Наум Григорьевич (Яр.ГУ) Hokee Minn (Seoul National Univ., Korea) Нарев Владимир Александрович (ФИРАН)

За информацией о Ломоносовских конференциях по физике элементарных частиц обращайтесь, пожалуйста, в оргкомитет к А.И.Студеникину: 119899, Москва, Ленинские горы, МГУ, физический факультет, кафедра теоретической физики, тел.:939-31-77.



1992-2025

33 years
of
Lomonosov Conference

...that was hard job to start the conference ... the faces have changed, but the Conference remains and develops ...

Since very beginning the project of

international

Lomonosov Conference on Elementary Particle Physics

attracted interest and support of the Russian national and international

scientific communities



Professor

Giordano Diambrini-Palazzi (1926-2012)

"Sapienza" Universita di Roma

"The status of the MQC experiment in Italy" August 30,1997

1997 - 8th Lomonosov Conference on Elementary Particle Physics

PARTICLE PHYSICS, GAUGE FIELDS AND ASTROPHYSICS

PROCEEDINGS 5th and 6th Lomonosov Conferences on Elementary Particles Physics:

Elementary Particles and External Fields (Yaroslavi, Russia, 20-25 April 1992)

Cosmomicrophysics and Gauge Fields (Moscow, Russia, 24-31 August 1993)

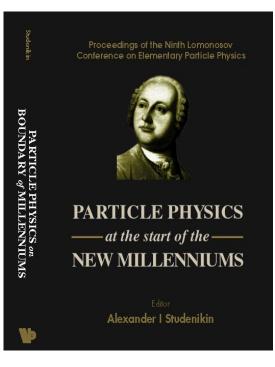
Edited by
Alexander I. Studenikin

Proceedings of Lomonosov Conferences 1992 and 1993

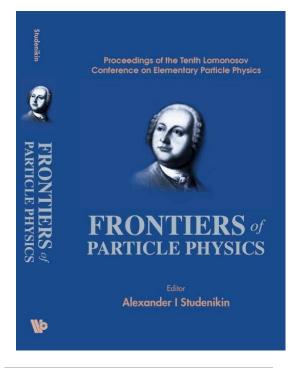
published by Accademia Nazionale dei Lincei Rome, Italy

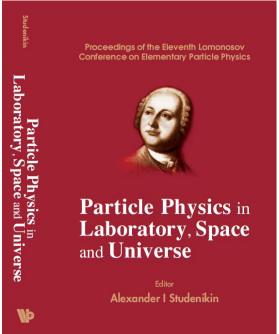


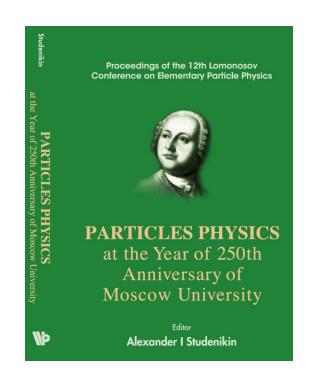
...thanks to kind decision of President Giorgio Salvini

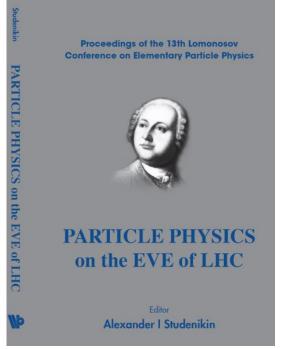


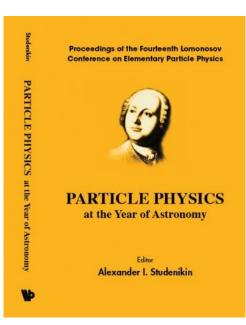
Proceedings of
Lomonosov Conferences
1999, 2001, 2003,
2005, 2007
published by
World Scientific Co
Singapore



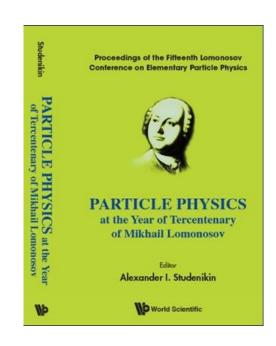


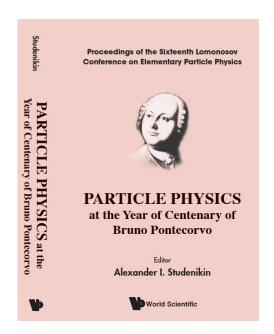


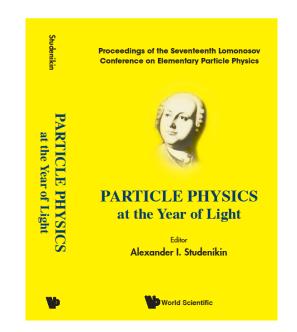


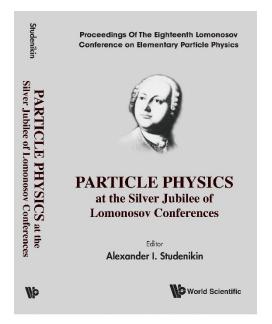


Proceedings of
Lomonosov Conferences
2009, 2011, 2013,
2015, 2017
published by
World Scientific Co
Singapore









The proceedings of 19th Lomonosov Conference on Elementary Particle Physics

World Scientific, Singapore

PARTICLE PHYSICS

at the Year of 150th Anniversary of the Mendeleev's Periodic Table of Chemical Elements

The volume of these proceedings is devoted to a wide variety of items, both in theory and experiment, of particle physics such as electroweak theory, fundamental symmetries, tests of standard model and beyond, neutrino and astroparticle physics, hadron physics, gravitation and cosmology, physics at the present and future accelerators. Studenikin

PARTICLE PHYSICS
at the Year of 150th Anniversary of
the Mendeleev's Periodic Table of Chemical Elements

Proceedings of the Nineteenth Lomonosov Conference on Elementary Particle Physics



PARTICLE PHYSICS

at the Year of 150th Anniversary of the Mendeleev's Periodic Table of Chemical Elements

Editor

Alexander I. Studenikin







The proceedings of 20th and 21st Lomonosov Conference on Elementary Particle Physics 2021 and 2023

Volume 77, Number 2 April 2022

ISSN 0027-1349

MOSCOW UNIVERSITY PHYSICS BULLETIN

Pleiades Roup Rikola
Nikola

Editor-in-Chief Nikolay N. Sysoev The proceedings of 22nd Lomonosov Conference on Elementary Particle Physics 2025

will be also publishes instructions will be sent soon

deadline for sending papers to Organizing Committee

15 December 2025

http://plelades.online.

*** PLEIADES PUBLISHING

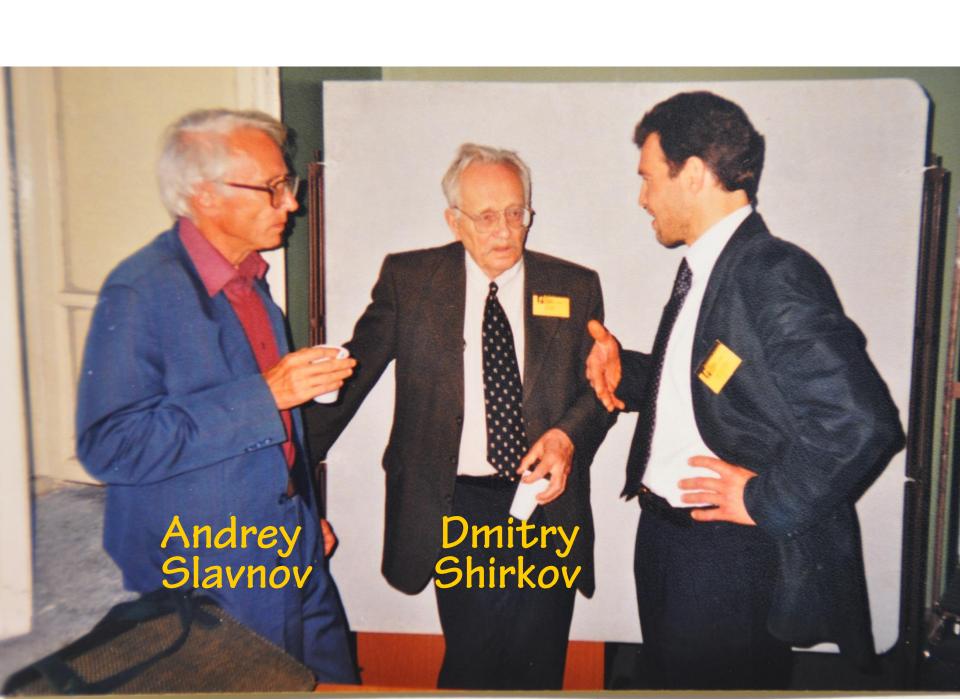
Distributed by **SPRINGER NATURE**

Lomonosov Conferences on Elementary Particle Physics

received reasonable support inside Russia and

rising of the scientific value of the conference has been provided by the personal participation in the events of distinguished Russian scientists

... I would like to nominate Russian scientists who have provided very important contribution to organization of Lomonosov Conferences and to forming the scientific programmes during passed 33 years





18th Lomonosov Conference 2017



Valery Rubakov, Institute for Nuclear Research of RAS

18th Lomonosov Conference 2017

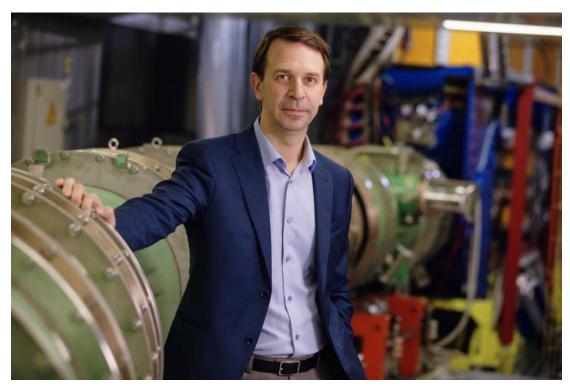


Victor Matveev,

Institute for Nuclear Research of Joint Institute for Nuclear Research (Dubna)

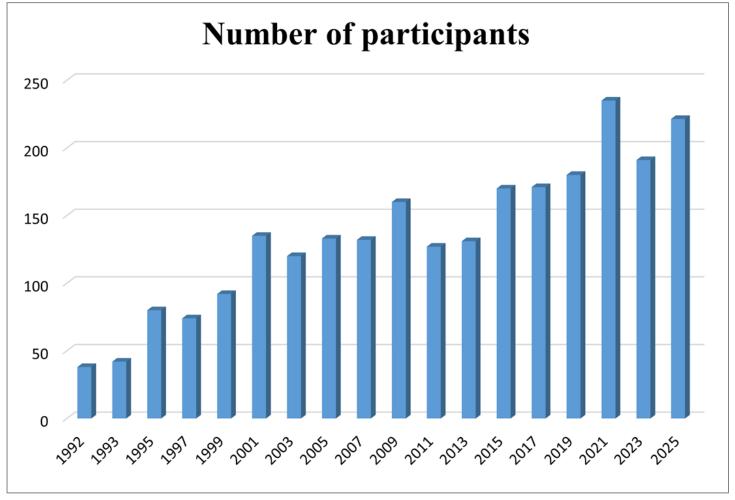






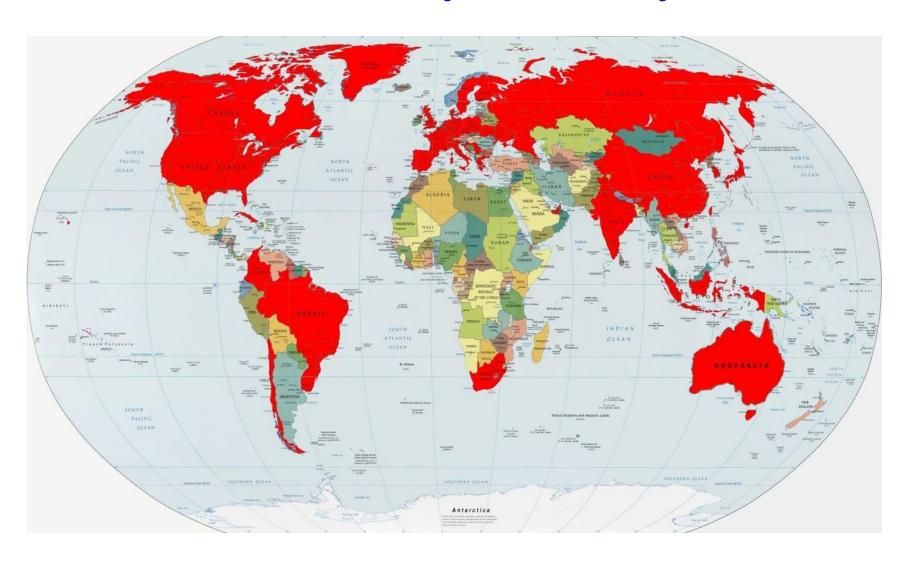
Academician Grigory Trubnikov Director of JINR

1992 Lomonosov Conference 2025



22nd Lomonosov Conference 2025

Map of the Lomonosov Conferences on Elementary Particle Physics





The main goals of the Lomonosov conferences are:

- to bring together scientists from different fields and to stimulate exchange of results and ideas
- maintainig collaboration between various universities and institutes
- to promote communication between young and senior scientists
- to establish relations between scientists from different countries

22nd Lomonosov Conference 2025

The conference programme covers a broad set of items on high energy physics, astroparticle physics, cosmic rays, gravitation and cosmology

22nd Lomonosov Conference on Elementary Particle Physics

We are proud

- that many world famous scientists and also happy
- that many young researches

from 32 countries are speakers at the Conference

... before to start the scientific programme let me announce an urgent request (sorry, more precisely, just a demand) to speakers and Chairpersons

- we have: •218 presentations
 - 6 working days (one free day on August 24)
 - quite short time for tea breaks and lunches
 - 60 remote speakers
- from +8 to -10 hours spread of time zones for different speakers therefore we kindly ask all participants strictly follow time schedule

we recommend to reserve for discussions:

•	25 min presentation		5 min
•	20 min presentation	\Rightarrow	4 min
•	15 min presentation		3 min
•	10 min presentation		2 min

22nd Lomonosov Conference Social programme

August 21

Reception banquet held on board of a ship that will stream along the river across the central part of Moscow (conference buses to the ship will depart from the entrance of Faculty of Physics at 17.30 pm)

August 24

Bus excursion tour to Sergiev Posad (75 km away from Moscow, visit to the Saint Serge Abbey, historical and icon museums, lunch will be served at the Russian Orthodox Academy (conference buses will depart from the conference hotel at 9.00 am)

August 27

Closing fourchette at Organizing Committee hall (Faculty of Physics) at 18.00 pm



XXII
Lomonosov
Conference
dinner

boat trip on

August 21 2025

 conference buses to the boat from the Physics Faculty entrance at 17.30 pm



August 24

Bus excursion tour to Sergiev Posad

75 km away from Moscow

visit to Saint Serge Abbey,

historical and icon museums,

lunch will be served at

Russian Orthodox Academy

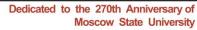
... conference buses will depart from the

Conference Hotel at 9.00 am

... it is possible to sign up on the ship (on August 21)
 at the Organizing Committee during
 the coffee break
 (for those who don't have coupons yet)

 ... same is for the banquet for the bus tour to Sergiev Posad (on August 24) (for those who don't have coupons yet) Faculty of Physics

Moscow State University



TWENTY- SECOND LOMONOSOV



CONFERENCE ON Moscow, August 21 - 27, 2025

ELEMENTARY

Mikhail Lomonosov 1711-1765 PARTICLE

V. Belokurov (MSU)

E. Boos (MSU)

Tests of Standard Model & Beyond Theories Beyond Standard Model **Neutrino Physics** Astroparticle Physics **Electroweak Theory** Gravitation and Cosmology Developments in QCD **Heavy Quark Physics Physics at Future Accelerators**

XVII International School on Neutrino Physics and Astrophysics August 22 - 25, 2025

> Under the patronage of V. Sadovnichy

> > Rector of MSU



Bozovic Jelisavcic (Univ. of Belgrade)

S. Choudhury (IISc, Bangalore)

M. Danilov (Lebedev Phys. Inst.)

A. Dolgov (Novosibirsk State Univ.) A. Fedyanin (MSU)

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... let me wish an interesting Lomonosov Conference

Programme of the 22nd Lomonosov Conference on Elementary Particle Physics (duration of 25 /20-15/ minutes talks includes 5 /3/ minutes for discussion)

(remote talks are highlighted in blue)

21 August, Thursday

08.00 - 09.00Registration (Hall in front of Central Physics Auditorium, Faculty of Physics,

Moscow State Univ.)

09.00 - 09.30Opening (Conference Hall)

Vladimir Belokurov, Dean of Faculty of Physics of MSU

Andrey Fedyanin, Vice Rector of Moscow State University Grigory Trubnikov, Director of Joint Institute for Nuclear Research Alexander Panin, Vice Director of Institute of Nuclear Research

Arkady Yukhimchuk, Russian Federal Nuclear Centre

& National Centre for Physics and Mathematics

Welcome on behalf of Ministry of Science and Higher Education of Russia

Chair: Alexander Studenikin, Chairman of Organizing Committee, MSU

09.30 - 13.20MORNING SESSION (Conference Hall)

09.30 I. Logashenko (Budker Inst. of Nucl. Phys.) Anomalous magnetic moment of muon (25 min)

09.55 B. Shwartz (Budker Inst. of Nucl. Phys.) Muon (g - 2)/EDM experiment at J-PARC (25 min) 10.20 I. Bozovic Jelisavcic (VINCA Inst. of Nucl. Sciences, Univ. of Belgrade) A linear collider vision (for the future of Particle Physics) (25 min)

10.45 F.-K. Guo (Inst. of Theor. Phys., CAS) Near-threshold hadrons with heavy quarks (25 min)

11.10 - 11.40Tea break

11.40 V. Riabov (NRC «Kurchatov Inst.» - PNPI) Status and perspectives of the MPD at NICA (25')

12.05 J. Gao (IHEP, CAS) CEPC project status (25 min)

12.30 G. S. Huang (Univ. of Science and Technology of China) Overview of BESIII physics (25')

12.55 Zh. Cao (IHEP, CAS) Precision measurement of the spectra of cosmic ray individual species in PeV range (25 min)

13.20 - 15.00Lunch

15.00 - 17.30AFTERNOON SESSION (Conference Hall)

15.00 C. Giunti (INFN, Turin) The Gallium Anomaly (25 min)

15.25 Yu. Kudenko (INR RAS) Physics with accelerator neutrinos (25 min)

15.50 H. Duyang (Shandong Univ.) Status and perspectives of the JUNO experiment (25 min)

16.15 Y. Farzan (Inst. for research in fundamental sciences) Searching for axial neutral current non-standard interactions of neutrinos by DUNE-like experiments (25 min)

16.40 M. Giammarchi (INFN, Milan) Antimatter gravitation and fundamental laws (25 min)

SPECIAL SESSION (40 °)

Reception banquet will be held on board of a ship that will stream along the river across the central part of Moscow; the conference buses to the ship will depart from the entrance of the Faculty of Physics at 17.30