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Speakers: present and next

Viktor Matveev
Dmitri Grigoriev
Petr Tinyakov
Vladimir Gavrin
Boris Stern
Vahe Gurzadyan
Alexey Isaev
Andrei Barvinsky
Mikhail Vasiliev
Zurab Berezhiani
Anna Tokareva
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Dam Thanh Son
Vyacheslav Spiridonov
Alexander Dolgov
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Mikhail Danilov
Yury Kudenko
Gia Dvali
Roman Nevzorov
Wilfried Buchmueller
Geraldine Servant
Alexander Belyaev


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International Conference
on

Particle Physics and Cosmology

October 02-07, 2023

Yerevan, Armenia

Foto: Natalya Eremina

This is a Conference on Particle Physics and Cosmology dedicated to memory of Valery Rubakov who passed away in October 2022. The idea is to get together people from over the world to discuss the domains of physics he worked in and made breakthrough contributions.

The conference is aimed to bring together world leading experts and young researchers in the field of theoretical particle physics and related topics.

The conference will consist of plenary talks (by invitation only) and selected parallel sessions presentations.

Main Topics

- Physics beyond the Standard Model
- Cosmology and astroparticle physics
- Gravity and its modifications
- Neutrino physics
- Quantum chromodynamics, strong interactions
- Aspects of mathematical physics
- Selected experimental results

Organizers

Alikhanian National Laboratory
(Yerevan Physics Institute), Armenia

A. ALIKHANYAN National Laboratory

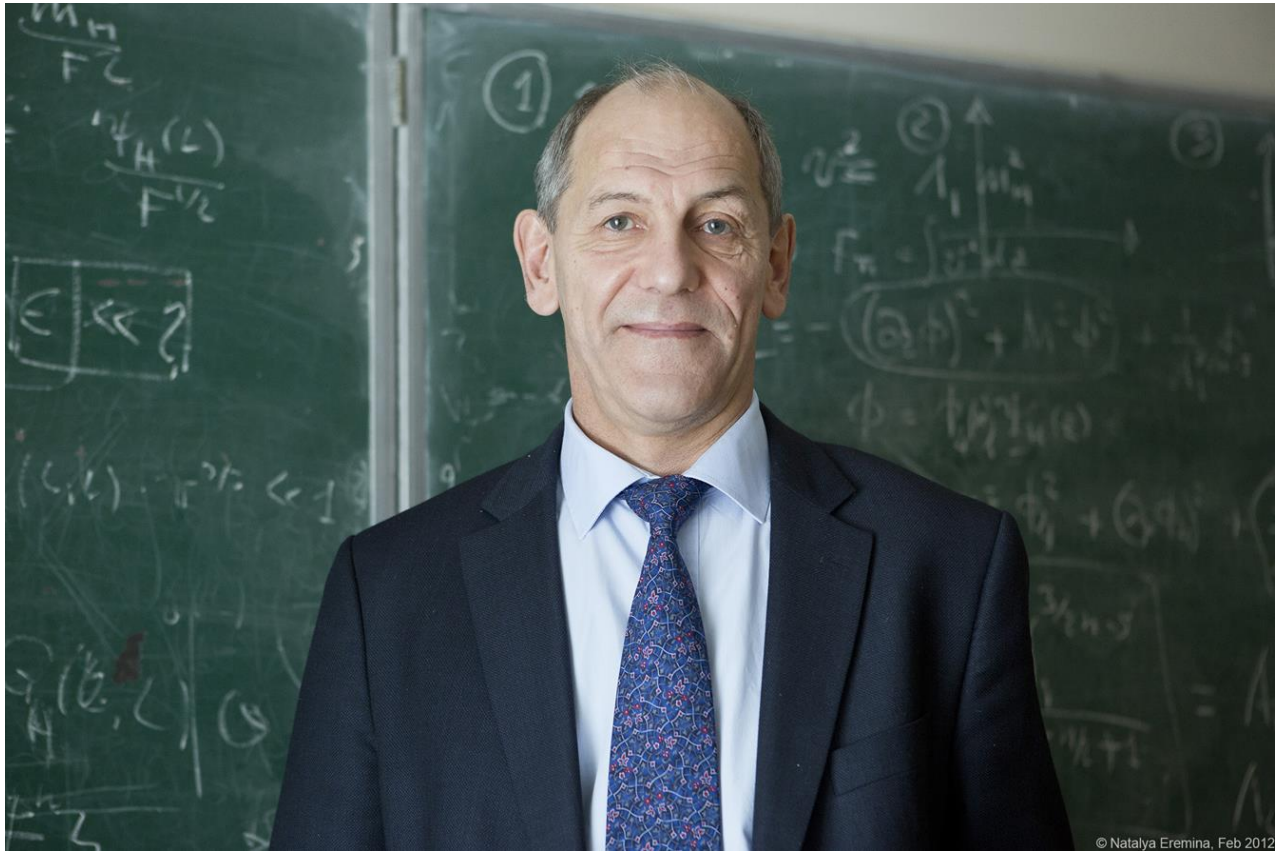
International Advisory Committee

Ani Aprahamian *(AANL)*
Wilfried Buchmuller *(DESY)*
Mikhail Danilov *(LPI)*
Sergei Dubovsky *(NYU)*
Glennys Farrar *(NYU)*
Gregory Gabadadze *(NYU)*
Dmitry Gorbunov *(INR)*
Ruth Gregory *(King's College London)*
Renata Kalosh *(Stanford University)*
Dmitry Kazakov *(JINR)*
George Lavrelashvili *(TSU)*
Andrey Linde *(Stanford University)*
Larry McLerran *(U of Washington)*
Slava Mukhanov *(LMU)*
Mikhail Shaposhnikov *(EPFL)*
Alexey Smirnov *(MPIK)*
Dam Son *(U of Chicago)*
Peter Tinyakov *(ULB)*
Neil Turok *(U of Edinburgh)*
Christof Wetterich *(U of Heidelberg)*

ORGANIZING COMMITTEE

Yulia Ageeva *(INR)*
Roza Avetisyan *(AANL)*
Robert Avetyan *(AANL)*
Vladislav Barinov *(INR)*
Dmitry Gorbunov *(INR)*
Artur Hakobyan *(AANL)*
Ekaterina Kriukova *(INR)*
Vahram Sargsyan *(AANL)*

Yulia Ageeva, email: y.a.ageeva2604@gmail.com
Ekaterina Kriukova, email: katyakryukova@inbox.ru



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TO MEMORY OF CLOSE COLLEAGUE AND FRIEND VALERY A. RUBAKOV

“ Brilliant Theorist, Teacher and Organizer of scientific research and education”
(Victor A. Matveev, Sci.leader of JINR)
(35 years together in the Institute for Nuclear Research of RAS and in Russian Academy of Sciences)

Some Important Vallery Rubakov dates:

1955 – 19.10 2022;

1978 - Graduated from the Physics Faculty of Moscow State Un.;

1978 – Postgraduate studies and then Theory Division in INR of RAS under supervision of Prof. Aleco Tavkhelidze;

1986 - A. Tavkhelidze moves to the position of President of Academy of Science of Gorgia in Tbilisi, getting the position of the Scientific head of INR of RAS ;

1987 – V. Matveev elected by the director of INR of RAS; forming a new directorate;

Valery A. Rubakov (senior researcher of Theory Division) were suggested and accepted the proposal to be the research deputy director of INR RAS. He was allowed to preserve his affiliation and work in the Theory division.
This position has to be approved by the Bureau of the Nuclear Physics Division of RAS. (Interesting story)!
It was my first experience to work with young research deputy (1987-1994). My first lessons of giving them an administrative responsibilities.
But it is a great story!

His first significant scientific works (latter understood as the outstanding ones!) were done before accepting this position:

1980 :“The World on the Brane” (in coll. With Mikhail Shaposhnikov);

1981: “The Monopole decay of the proton”;

1985: “The Non-conservation of the Fermionic charges in the ElectroWeak Interactions”.

Valery Rubakov had brought a valuable (if not to say the principal one) contribution into organization of the now world known and rather successful serious of the International Seminars “QUARKS” (together with A.N. Tavkhelidze and V.A. Matveev) on the Physics of “Elementary Particles, Quantum Field Theories and Cosmology”.

Having the right to work as a staff member of the Theory Division he became practically the one of the leader of this laboratory. He was reading lectures at the Chair of the Quantum Statistics and Quantum Field Theory (N.N Bogolyubov and A.N. Tavkhelidze at the Moscow State University. Then on the Chair of QFT and Cosmology (becoming its Chair from 2020 after A.N. Tavkhelidze) and partially on the Chair of the MPhTU (M.A. Markov->V.A. Matveev->M.V. Libanov).
He has educated its own outstanding scientific school of theorists and wide educated physicists now very well known in the world physics community as the RUBAKOV SCHOOL.

Without having any experience of the administrative work and scientific management Valery rather soon became one of the most effective member of the directorate.
He definitely had a talent of the research leader. First of all he revealed high quality of responsibility, first of all of his personal responsibility, creativity and ability to find talented young people and concentrate them on the chosen ambitious task.

There was a complete trust between us. I used to consider him as the best candidate for the next director of the Institute when my (as I hoped) ten years term will come to the end.
But after seven years (at 1987 +7 = 1994) Valery once came to me and has stated:
“One year, no, one month more and I will stop to be a theorist! So, please, let me free!”
I had not a choice but had agreed.
But what is important; even stepping down from the Directorate Valery preserved his responsibility for the fate of the Institute and development its major scientific directions. He still was one of the scientific leaders of the Institute!

As the scientific research Deputy Director and after stepping down from this position Valery Rubakov made a great contribution to the development of the scientific program amd work of the Baksan Neutrino Observatory, the Baikal Neutrino Station with the Deep Underwater Neutrino Telescope and of the other scientific laboratories of the INR of RAS, in organization of the thematic scientific Schools and seminars, as well as in organization and realization of the collaboration programs at the joint research installations.

For many years Valery Rubakov acted as the leader and manager of the fundamental research programs on the Elementary Particles Physics and Astrophysics and on the fundamental Nuclear Physics in the framework of the Presidium of the Russian Academy of Sciences program.

Valery Rubakov brought the big and valuable contribution into the work of the presidium of Russian Academy of Sciences and its Physics Devision, being the Head of the Section of Nuclear Physics. Once he was nominated for an election by the academician-secretary of the Physics Division of RAS but decided to withdrew his candidacy.

Valery Rubakov have plaid very important role in the work of the magazine “USPEKHY” («Успехи Физических Наук») being from 1999 his Deputy Chief Redactor and from 2004 his Chief Redactor. He was a member of the magazine “Theoretical and Mathematical Physics” redcollegia and the International of Modern Physics.

Valery Rubakov led very active scientific, organizational and social (общественную) life.

He was:

*Member of the JINR Scientific Council;

*Member of the Council of Science and Education of the President of the Russian Federation;

*Member of the Expert Committee of the gold medals and prizes of the names of great academicians of RAS;

*Member of the Committee of RAS of Combat Pseudoscience;

*Member of the First July Club of RAS,

and others.

It is very difficult to describe in a few words
who was academician
Valery Anatolievich Rubakov for all of us,
for our Russian Academy of Sciences for our
international community.

If shortly:
He was the Mind and Conscience of our Science.

THANK YOU!

Victor A. Matveev (Scientific head of the JINR, Dubna.)

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Alexander Belyaev

Photo courtesy of INR

Photo courtesy of INR

1983 – Meeting with 3rd year students

Photo courtesy of INR

1983 – Meeting with 3rd year students

1985-86 – Going home by metro

Photo courtesy of INR

1983 – Meeting with 3rd year students

1985-86 – Going home by metro

ca.1985/86 – Birthday party

Photo courtesy of INR

1983 – Meeting with 3rd year students

1985-86 – Going home by metro

ca.1985/86 – Birthday party

1987-94 – Deputy Director of INR

Photo courtesy of INR

1983 – Meeting with 3rd year students

1985-86 – Going home by metro

ca.1985/86 – Birthday party

1987-94 – Deputy Director of INR

1991/92 – Quarks’92

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Alexander Belyaev

Some old photos

QUARKS' 2004

QUARKS' 2004

QUARKS' 2004

QUARKS' 2004

QUARKS' 2004

QUARKS' 2004

QUARKS' 2004

QUARKS' 2004

BLOIS 2006

BLOIS 2006

March 2019

March 2019

Hambourg Nov 2021



Hambourg Nov 2021

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Valery Rubakov as an enlightener

2014, September, Peace March

Two styles of popular lectures:

The most of popular science speakers: Easy and shallow

Valery Rubakov: Deep and clear

Some videos

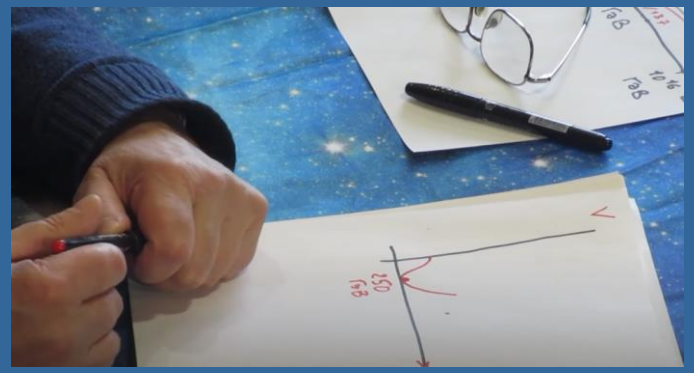
Where did the matter in the universe come from? 476 000 views
https://www.youtube.com/watch?v=qjSfCHRGOck

Higgs boson discovered. What's next? 360 000 views
https://www.youtube.com/watch?v=yi87VJobUFQ

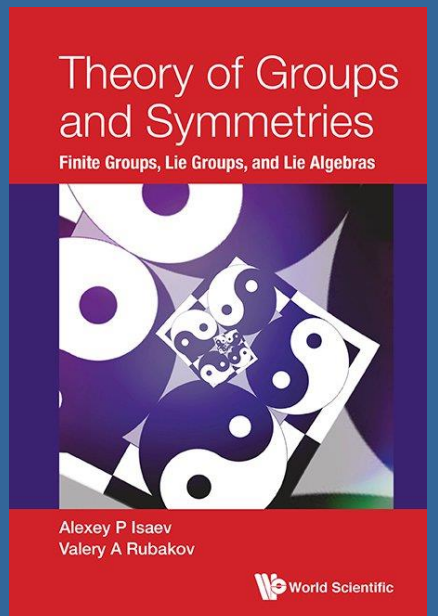
The Big Bang: what was and what will be 205 000 views
https://www.youtube.com/watch?v=k1ZTYEyEjTg

Books

For hard students
(+ D. Gorbunov)

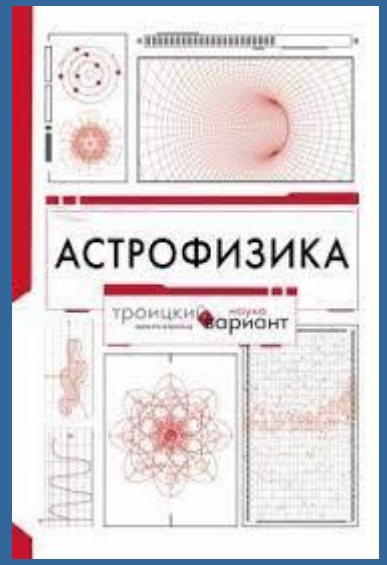


For hard students



For scientists
(+ A.Isaev)

For educated general
Public (+ B.Stern)



(Scientific editor)
For general
educated public

Rubakov and “Troitsky variant”

Antropic principle (2018)
Dark energy in the Universe (2018)
For the glory of dark matter (2018)
The Universe before the hot Big Bang (2018)

Sakharov and Cosmology: Baryon asymmetry of the Universe (2011)
Scale bar of the universe (2011)

Prospects for particle physics (2022, January)

My suggestion:

Let’s make a movie about Valery

Troitsky variant production

We have:

An excellent movie editor Alexey Kudrya

A composer Andrey Klimkovsky in a reachable neighbourhood

A lot of people just around who can tell something interesting about Valery

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Geraldine Servant
Alexander Belyaev

Yerevan State University, Armenia

October 02 - 07, 2023

Conference on Particle Physics and Cosmology

dedicated to memory of Valery Rubakov

Memorial Session

Early Years

В заключение подчеркнем, что главной трудностью, возникающей в данном подходе, является определение функционалов Δ, Φ и $\tilde{\Delta}$ в представлениях (46) и (56).

Автор благодарен Б.А.Арбузову, В.Г.Кадышевскому, А.В.Разумову, В.А.Рубакову и Л.Д.Соловьеву за ряд ценных советов и обсуждения. Автор особенно благодарен В.А.Рубакову за указание на важность решения задачи Коши для построения квантовой теории. Автору также приятно поблагодарить Е.Ю.Меликову за помощь в подготовке рукописи и полезные замечания.

Литература

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13. L.D.Faddeev, V.N.Popov. Phys. Lett., 1967, B25, 30; B.De Witt. Phys. Rev., 1967, 160, 11113, 1195.

Рукопись поступила в издательскую группу
29 сентября 1982 года.

ИНСТИТУТ ФИЗИКИ ВЫСОКИХ ЭНЕРГИЙ

ИФВЭ 82-193
ОТФ

А.П.Исаев

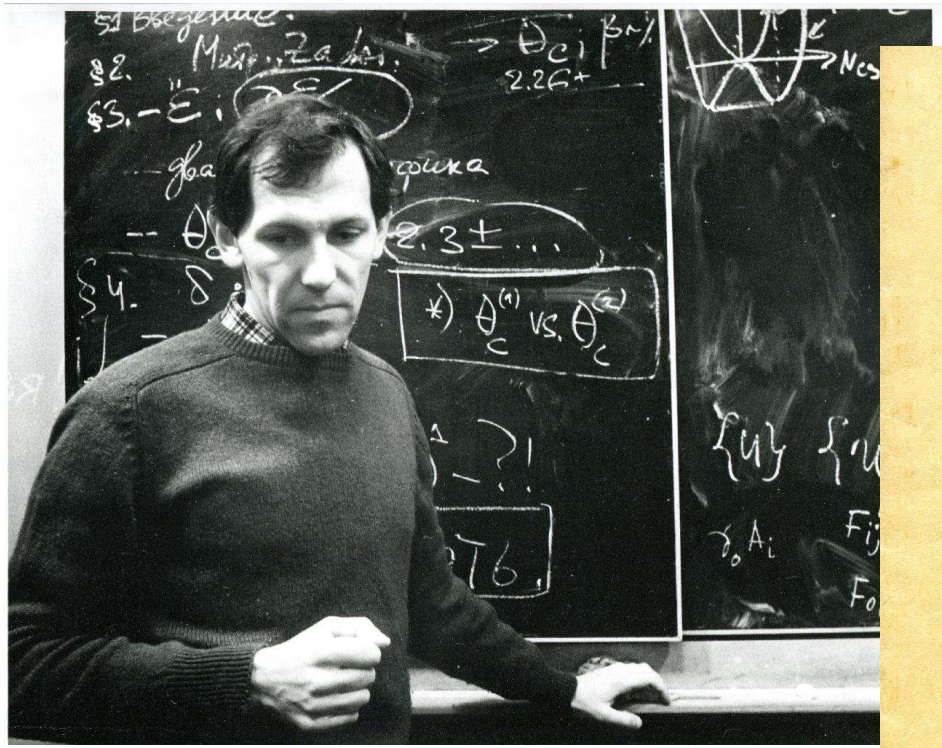
К ВОПРОСУ О КВАНТОВАНИИ РЕЛЯТИВИСТСКОЙ СТРУНЫ

Protvino, summer 1980 or 1981.

Conversation was in Moscow Metro

Early Years

V.A. Rubakov, Superheavy Magnetic Monopoles and Proton Decay, Pisma Zh.Eksp.Teor.Fiz. 33(1981)658



XXI Rochester conference, Paris (1982)

G. t'Hooft, Concluding Summary Talk

Работа выполнена в Отделе теоретической физики Института физики высоких энергий и в Лаборатории теоретической физики Объединенного института ядерных исследований.

Научный руководитель:
доктор физико-математических наук
профессор
Б.А. Арбузов.

Официальные оппоненты:
доктор физико-математических наук
профессор Б.М. Барбашов,
кандидат физико-математических наук
младший научный сотрудник
В.А. Рубаков.

Ведущее научно-исследовательское учреждение: Научно-исследовательский институт ядерной физики МГУ, Москва.

Автореферат разослан " " _____ 1983 года.
Защита диссертации состоится " " _____ 1983 года

ОБЪЕДИНЕННЫЙ ИНС

2-83-224

ИСАЕВ
Алексей Петрович

ВОПРОСЫ
КЛАССИЧЕСКОЙ И КВАНТОВОЙ ДИНАМИКИ
РЕЛЯТИВИСТСКОЙ СТРУНЫ

Специальность: 01.04.02 – теоретическая и математическая физика

Автореферат диссертации на соискание ученой степени кандидата физико-математических наук

Дубна 1983

Mid 1980s, early 90s

Nuclear Physics B256(1985)434-448

CLASSICAL VERSUS SEMICLASSICAL ELECTROWEAK DECAY OF A TECHNISKYRMION

J. AMBJØRN

NORDITA, Blegdamsvej 17, DK-2100 Copenhagen Ø, Denmark

V.A. RUBAKOV

*NORDITA, Blegdamsvej 17, DK-2100 Copenhagen Ø, Denmark and Institute for Nuclear Research of the Academy of Sciences of the USSR, Moscow, USSR**

Received 10 January 1985

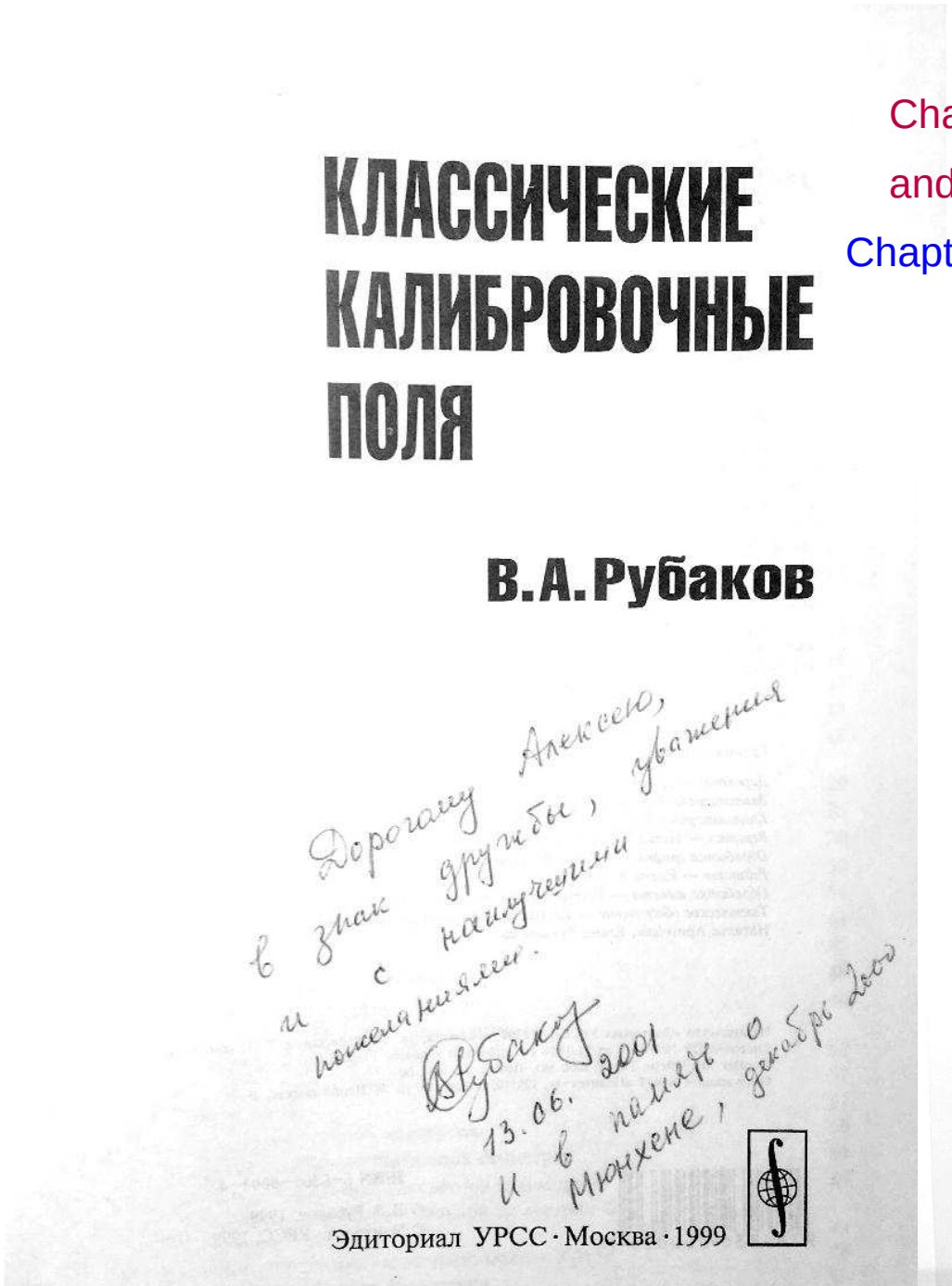
We study numerically the classical behaviour of the Skyrme model coupled to an SU gauge field. We find that if the parameters of the model are chosen in such a way that skyrmion mass is smaller than a critical value M_{crit}, the skyrmion is classically stable. For values of the parameters there are no soliton solutions to the classical field equations skyrmions are classically unstable. We calculate the critical values of the parameters and critical mass of the skyrmion. We find that the transition between these two classical regimes first-order one. We comment on the implications of our results to technicolour theories.

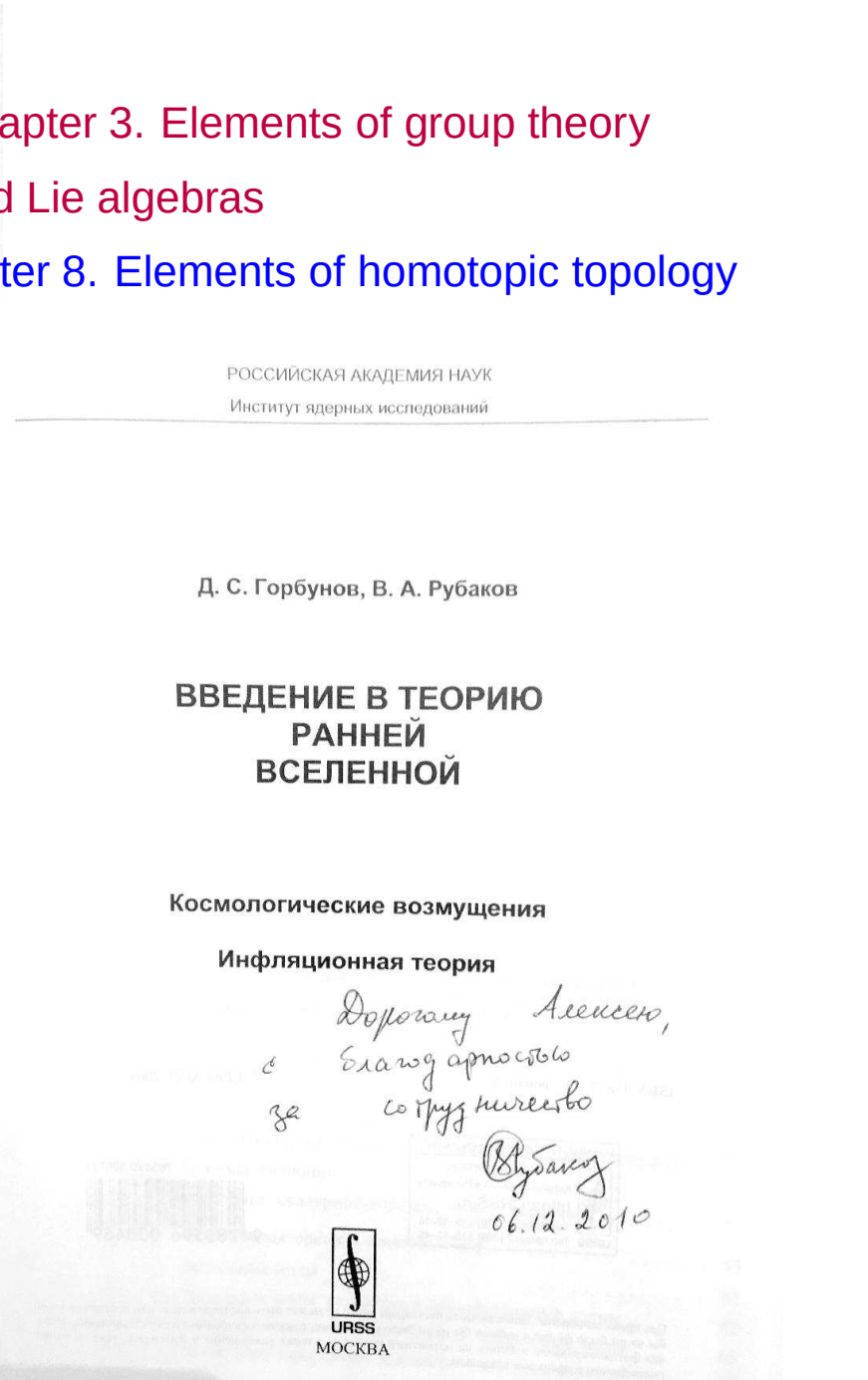
1. Introduction

A remarkable property of various gauge theories is a θ-structure of the gro state which leads to the anomalous non-conservation of fermion quantum numb such as axial U(1) in four-dimensional QCD [1] and two-dimensional QED [2 baryon number in the electroweak theory [1]. The common belief is that four-dimensional non-abelian theories with weak gauge couplings, these effects associated with instantons [3] describing the tunneling transitions between va

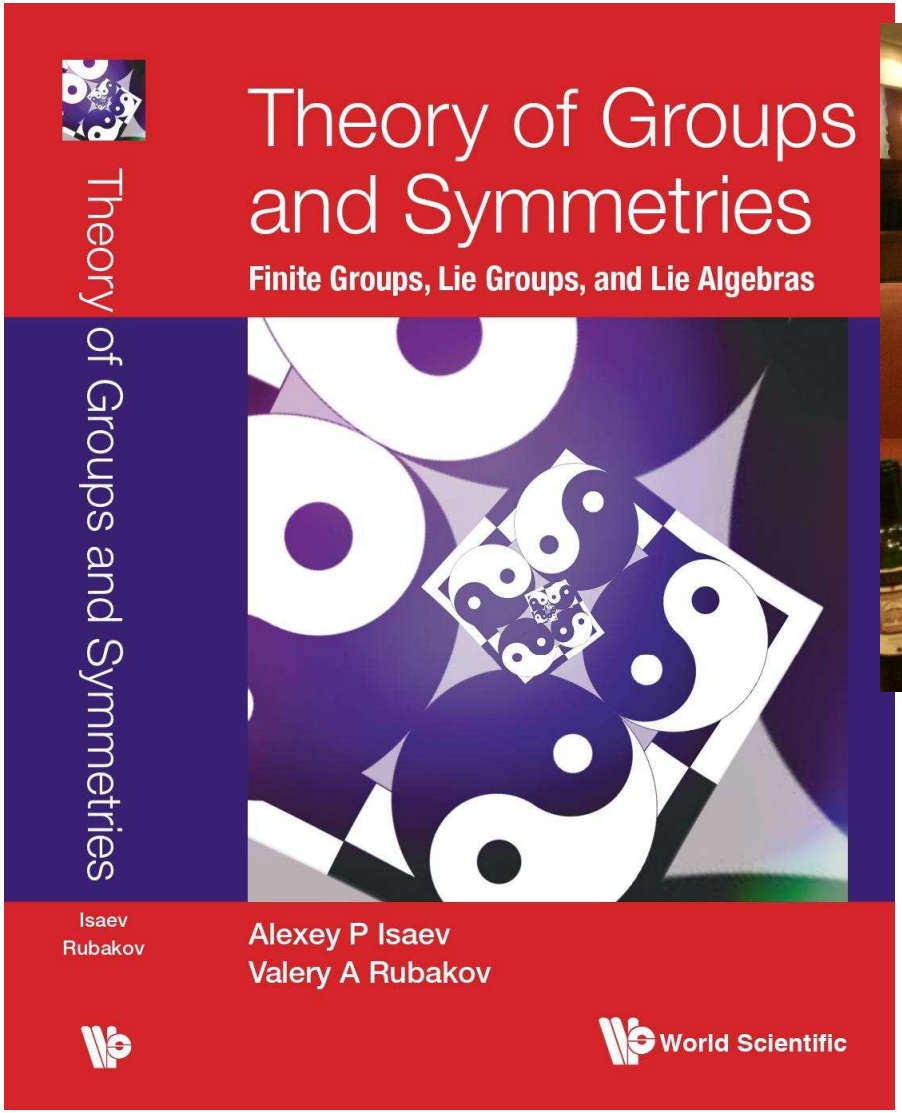
Chapter 3. Elements of group theory and Lie algebras

Chapter 8. Elements of homotopic topology

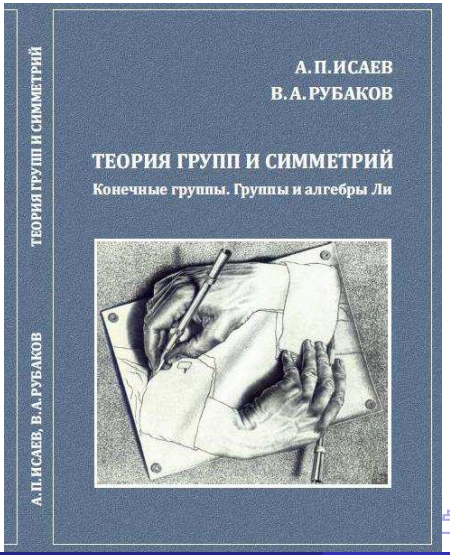




Books ”Theory of Groups and Symmetries”, 2011 - ...



Dubna, 2014



Tremendous ability to work hard

Translated into English by V.A. Rubakov

Bogoliubov Conference, Dubna, 2009

Schools for students, young scientists, ... Dubna, CERN-JINR, ... $\sim$ 2000

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Valery Rubakov

and
International Center for Fundamental Physics in Moscow

M.A.Vasiliev

Lebedev Institute, Moscow

Rubakov conference 23,

Erevan, October 02, 2023

Creation

International Center for Fundamental Physics in Moscow (ICFPM) was created in 1993 and closed in 2021. It was a small foundation founded by FIAN and NORDITA, aimed at supporting young scientists in FSU.

The story started in the early nineties when the economic situation in FSU was extremely bad.

It was most urgent to support the best PhD students and postdocs.

One of the important points was that ICFPM should work for all of theoretical physics in FSU.

Rubakov actively participated in the project during all those years.

Governing Board and Scientific Council

The general activities of the Center were coordinated by the Governing Board that consisted of V. Agranovich, D. Amati, A. Andreev, A.Arima, L. Brink (chairman), M. Dresselhaus, H.Feshbach, J. Friedel, P. Fulde, L. Gorkov, M. Jacob, L. Keldysh (vice chairman), V. Ogievetsky, C. Pethick, D. Pines, M. Rees, T. M. Rice and M. Vasiliev.

The idea of Brink and Pethick was to create a balanced Scientific Council responsible for elaboration of the functioning policy, composed of the representatives of different leading research institutes in Russia.

The original SC had the following members. Vasiliev (FIAN) chairman, Rubakov (INR), Mineev (ITP), Gurevich (FIAN), Suris (Ioffe Institute), Novikov (ITEP), Yakovlev (Ioffe Institute), Loiko (Executive director, FIAN), Luther (Nordita), Neveu (U. of Montpellier).
The original SC had some rotations at the later stage.
In 2011 Rubakov was appointed as chairman.

International Support and Dynasty Foundation

Originally, the financial support was provided by the Swedish Ministry of Sciences, Tamala foundation, INTAS and the Russian Ministry of Sciences. Though the scale of support was very modest, it allowed to support hundreds of young researchers in theoretical physics

Later on, the level of western support was gradually reduced until it terminated around 2000. As a result, the Center froze its activities for about two years until a representative of the Dynasty foundation contacted us asking for advice on the best way to support Russian science. The Dynasty foundation was created by the founder of Beeline Dmitry Borisovich Zimin who had a scientific radio-engineering background allowing him to appreciate the role and beauty of science, including physics and math in the first place.

Program

With the key participation of Rubakov the Center had developed an efficient scheme of Fellowship programs:

for PhD students and junior scientists without degree

for junior Postdocs

for young scientists with Second level degree (rehabilitation)

The numbers of stipends versus a number of applications in 2003-2007

	2003	2004	2005	2006	2007
Students (2200 rubles $\sim$ \$90 per month)	60-89	59-104	43-139	41-122	40-109
Postgraduate students and researchers without scientific degree (5 200 rubles $\sim$ \$210 per month)	50-111	40-152	40-169	36-154	
Postdocs (15 000 rubles $\sim$ \$600 per month)	10-46	10-67	16-112	14-111	10-97
Doctors of sciences (20 000 rubles $\sim$ \$800 per month)	-	-	-	-	5-25

Other programs

The program of support of scientific conferences

Annual Scientific summer schools in theoretical physics

Postdoc positions at Imperial College London

Support of participation of junior scientists in short-term topical international programs

Public Lectures in Moscow on the advances in science

This program was very successful lasting for the period 2002-2015 up to the point when the Dynasty foundation was forced to stop its activities in 2015 for reasons unrelated to its scientific program in collaboration with ICFPM.

The Role of Rubakov

The activities of the Center (in particular, in association with the Dynasty Foundation) had significant impact on other programs of support for Russian scientists later initiated in Russian Federation both at Federal and private level (for instance, by the Basis foundation).

Rubakov played the key role in shaping the activities of ICFPM.
For instance, it was his strong point that the time demanding expertise of the members of the Council was always done on the unpaid basis

Scientific merits in the first place

Balance between the schools

Valery was also a member of the Council of Dynasty together with other great people like, for instance, Ruben Vardanyan and late Evgeny Yasin

With wishes to the next generations to keep great traditions of

Valery Anatolievich Rubakov

Speakers: present and next

Viktor Matveev
Dmitri Grigoriev
Petr Tinyakov
Vladimir Gavrin
Boris Stern
Vahe Gurzadyan
Alexey Isaev
Andrei Barvinsky
Mikhail Vasiliev
Zurab Berezhiani
Anna Tokareva
Alexander Parkhomenko

Dam Thanh Son
Vyacheslav Spiridonov
Alexander Dolgov
Glennys Farrar
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Yury Kudenko
Gia Dvali
Roman Nevzorov
Wilfried Buchmueller
Geraldine Servant
Alexander Belyaev

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Alexander Belyaev

Rubakov's theorem

- "If one performs all the calculations correctly, one will obtain a correct result"

А. П. Исаев, В. А. Рубаков

ТЕОРИЯ ГРУПП И СИММЕТРИЙ

Конечные группы. Группы и алгебры Ли

Дорогому Шону
на память и, надеюсь, для
пользы
В. Рубаков
01.03.2019

URSS
МОСКВА

Speakers: present and next

Viktor Matveev
Dmitri Grigoriev
Petr Tinyakov
Vladimir Gavrin
Boris Stern
Vahe Gurzadyan
Alexey Isaev
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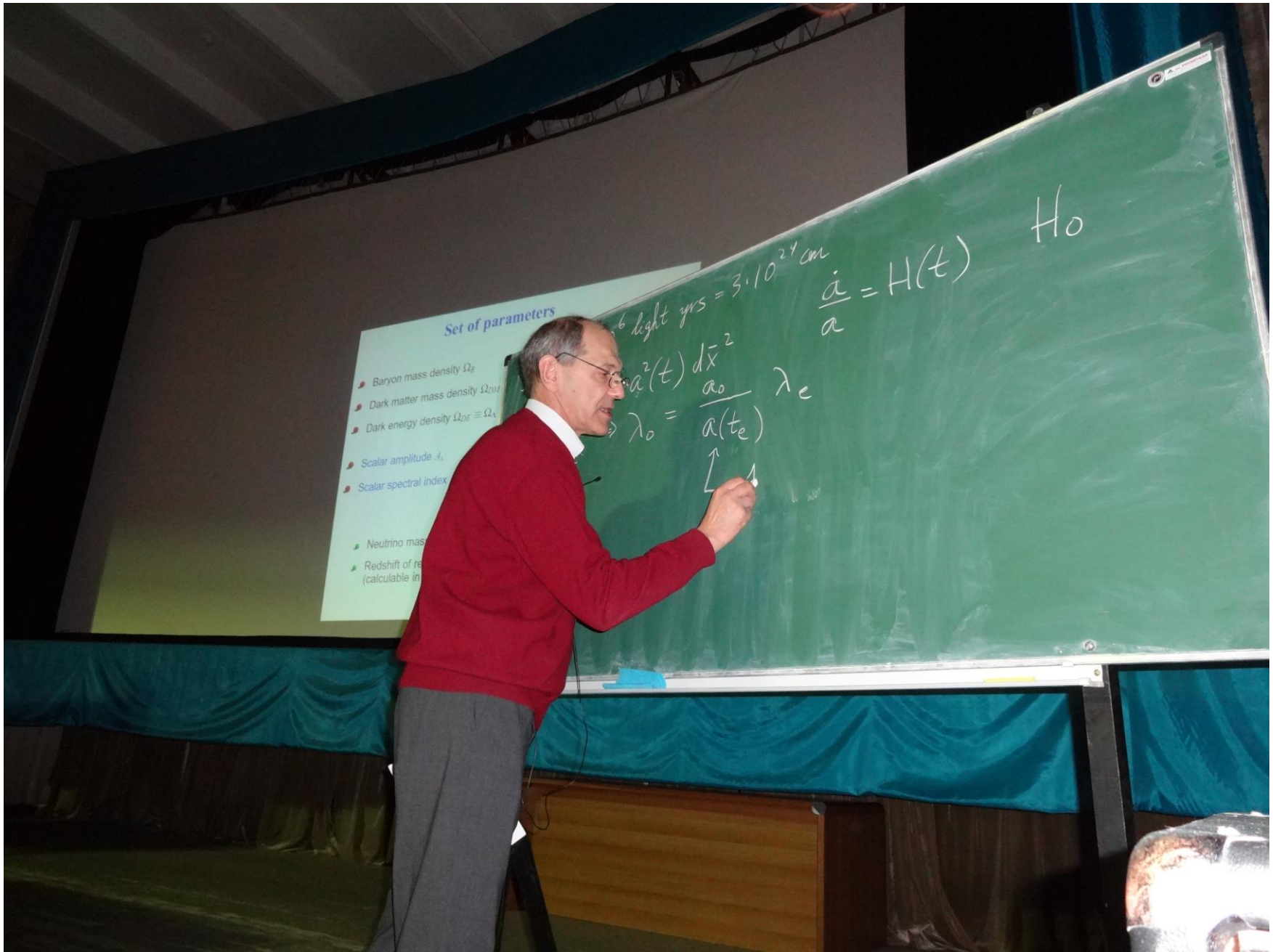
Lectures at the Moscow International School of Physics



Ski competition at the Moscow International School of Physics

Celebration of the International Center of Interdisciplinary Science and Education Inauguration, Vietnam 2013

Vietnam 2013

After swimming at Qui Nhon

At ITEP

Speakers: present and next

Viktor Matveev
Dmitri Grigoriev
Petr Tinyakov
Vladimir Gavrin
Boris Stern
Vahe Gurzadyan
Alexey Isaev
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Geraldine Servant
Alexander Belyaev

VALERY RUBAKOV

Yury Kudenko,
Tatiana Kudenko

INR, Moscow

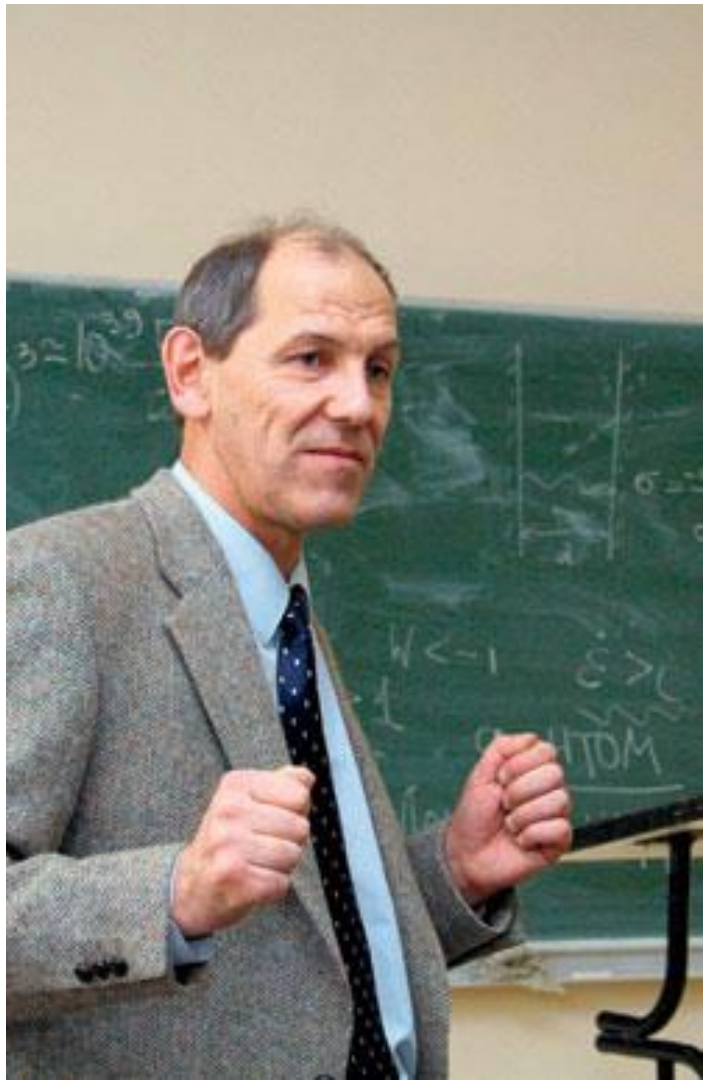
International Conference
on Particle Physics and Cosmology
dedicated to memory of Valery Rubakov
2-7 October 2023, Yerevan, Armenia

2013

2013

With A.Tavkhelidze
2006

With V.Matveev
2006



QUARKS-2010
Suzdal

With V.Lobashev
2004

2015

With D.Shirkov
QUARKS 2004

Dicussion on the RAS Particle Physics Program 2006


ФОТОЛЕНТА/// РИА
$
33,18 РУБ
HANGSENG
+0.52%
РАН ЖДЕТ
РЕШЕНИЯ ДУМЫ
ДОЖДЬ
OPTIMISTIC CHANNEL
LIVE
МОСКВА
29 /// Чт
3
+16
1
VK.COM
/tvrain
169674
подписчика
/// УЧАСТНИКИ КОНФЕРЕНЦИИ ПО РЕФОРМЕ РАН ПОТРЕБОВАЛИ ОТСТАВКИ ЛИВАНОВА И ГОЛОДЕЦ
21:30
ПОЛИТИКА
ЛЕВИЧЕВ МОЖЕТ СНЯТЬ СВОЮ КАНДИДАТУРУ НА ПОСТ МЭРА В ПОЛЬЗУ ДРУГИХ КАНДИДАТОВ
29 АВГУСТА

2013

With A.Petrukhin and Y.Kudenko School at INR 2003

QUARKS-2014
Suzdal

Meeting with Deputy Minister at INR in 2015

Meeting with
Nobel Prize Laureate
T.Kajita at RAS
in 2019

Caucasus, Baksan 2016

Speakers: present and next

Viktor Matveev
Dmitri Grigoriev
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Boris Stern
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Wilfried Buchmueller
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Alexander Belyaev


No way!
$M_g = 0$ in any D!

Speakers: present and next

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Geraldine Servant
Alexander Belyaev

A few remarks...

Roman Nevzorov
(Lebedev Physical Inst.)

International Conference on

Particle Physics and Cosmology

(Rubakov Conference 2023)

- First time I met Valery Anatolyevich Rubakov in Autumn 2000. My second PhD adviser (Karen Avetovich Ter-Martirosyan) recommended me to give a seminar in the Institute for Nuclear Research (INR) of the Russian Academy of Sciences. During this seminar and after it I had a very enlightening and instructive discussions with Valery Anatolyevich and young members of his group (Dmitry Gorbunov, Sergei Troitskii, Maxim Libanov, etc).
- After the successful defence of my PhD thesis I was working in Germany, UK, USA and Australia for almost fourteen years. Every time I was returning back to Russia I was trying to come to INR and discuss my results with Valery Anatolyevich and his group. So I had many fruitful and helpful discussions with him and other members of INR Theory Division.
- Once in 2009 Valery Anatolyevich invited me to give a course of lectures on "Phenomenological aspects of Supersymmetry (SUSY)" at the Dynasty Foundation Summer School (Protvino, Moscow region, Russia, 10-20 August, 2009). This was just before I moved from Glasgow University to Hawaii University. I agreed and gave several lectures on SUSY.

- Valery Anatolyevich Rubakov was also lecturing at this Summer School. He presented a fantastic course of lectures on "Alternative theories to SUSY". In particular, he discussed Technicolor, composite Higgs models as well as theories with extra spatial dimensions.
- His wonderful course stimulated my own investigations of Grand Unified Theories (GUTs) with extra spatial dimensions, i.e. orbifold GUTs, during my stay in Honolulu. Moreover since my arrival to Adelaide (South Australia) in 2013 I started working on composite Higgs models that can originate from E_6 orbifold GUTs.
- My decision to move back from Adelaide to Moscow in 2017 was strongly motivated by the presence of large particle theory community in Russia that involves scientists like Valery Anatolyevich Rubakov.
- In 2019 I defended my habilitation thesis in INR. Valery Anatolyevich was chairing this meeting (in very alive manner).
- The talk, that I am going to present at this Conference, is based on the article that appeared as a result of the discussions which took place during the defence of my habilitation thesis.

- In the course of the preparation of my habilitation thesis I realised that many members of the particle physics community believe that low energy SUSY has been basically ruled out by the LHC experiments. Because of this in 2020 I applied for RFBR grant that permitted me to prepare a review article on "Phenomenological aspects of supersymmetric extensions of the Standard Model" for Physics-Uspekhi (UFN).Valery Anatolyevich, who was Editor-in-Chief of this journal, supported my intension.
- My review paper was accepted in July 2022. It was published in July 2023.
- Valery Anatolyevich Rubakov has been one of the inspirational leaders of scientific community in Russia for several decades. He was a prominent figure in theoretical physics, a brilliant organizer and a great human being.

Many Thanks, Valery Anatolyevich!!

Speakers: present and next

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Valery Rubakov in Hamburg

Valery Rubakov had long and active interaction with DESY, starting in the late 80's with Roberto Peccei as head of theory group; since then many visits to DESY (seminars, lecture series, talks at DESY TH Workshop, …, visits of younger colleagues; also visits of DESY theorists in Russia, Ahmed Ali, Andreas Ringwald, …, bi-anual Quarks conf. series and other occasions, …

Yaroslavl '96; broad and intense physics progamme, but also time for cultural events (e.g. visit of performance in Mariinski Theater in St. Petersburg,
from Novgorod '02)

2010: election as member of Hamburg Academy of Science and Humanities in recognition of his scientific achievements, participation in activities of Academy

AKADEMIE DER WISSENSCHAFTEN IN HAMBURG

2020: Hamburg Preis für Theoretische Physik (Pauli Centre for Theoretical Physics & Herz foundation), special event in Hamburg Planetarium and 3-day conference on particle physics and cosmology

Beyond his scientific work, Valery Rubakov took responsibility for his young collaborators, for science in Russia and around the world; his advice was very much appreciated; this led to encounters on various occasions, for instance at meetings of the Scientific Policy Committee at CERN

From: **Wilfried Buchmuller** wilfried.buchmueller@desy.de
Subject: cern
Date: 26. September 2022 at 17:50
To: rubakov@inr.ac.ru
Cc: Wilfried Buchmuller buchmuwi@mail.desy.de

WB

Dear Valery,

I am missing you at this year's SPC meeting, but I am optimistic that we will meet again on this occasion in the future!

Best regards,
Wilfried

Last email exchange a year ago during SPC meeting in September 2022

From: **V.A.Rubakov** rubakov@inr.ac.ru
Subject: Re: cern
Date: 26. September 2022 at 19:47
To: Wilfried Buchmuller wilfried.buchmueller@desy.de
Cc: Wilfried Buchmuller buchmuwi@mail.desy.de

V

Dear Wilfried,
Today I had a series of other meetings
which I could not skip, unfortunately.

Indeed, I also hope we will meet at some point
despite everything.

Best wishes,

Valery

We shall remember Valery as a great physicist, a great teacher, as someone who took responsibility and, most of all, as a friend.

Speakers: present and next

Viktor Matveev
Dmitri Grigoriev
Petr Tinyakov
Vladimir Gavrin
Boris Stern
Vahe Gurzadyan
Alexey Isaev
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Roman Nevzorov
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Alexander Belyaev

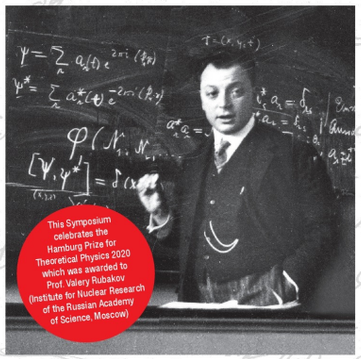
Valery Rubakov's visits in Hamburg in the last decade

WOLFGANG PAULI CENTRE
A COMPETENCE FIELD OF PIER

PIER
Partnership of Universität Hamburg and DESY

Theoretical Physics Symposium 2020

25 November 2020
https://desy.zoom.us/j/3544139367
Meeting ID: 354 413 9367
Passcode: WPC251120!



The Hamburg Prize for Theoretical Physics was brought into being in 2010 and recognizes outstanding achievements in the discipline of theoretical physics. It is endowed by the Joachim Herz Foundation with a prize money of 137,036.00 euros.

The Symposium in 2020 offers two scientific seminars:

Valery Rubakov
Institute for Nuclear Research of the Russian Academy of Sciences, Moscow

14:30
Hard job of starting the Universe

Neil Turok
Higgs Chair of Theoretical Physics, University of Edinburgh

15:30
Path Integrals for the Universe

Local organizing committee
Christophe Grojean, Thomas Konstandin, Volker Schomerus, Geraldine Servant, Alexander Westphal

http://www.wpc-hh.de

JOACHIM HERZ STIFTUNG

This workshop is organised in collaboration with Joachim Herz Stiftung.

AKADEMIE DER WISSENSCHAFTEN IN HAMBURG

Theory Colloquium

Towards Bouncing and Genesis Cosmologies

by Valery Rubakov (INR Moscow)

Wednesday Jan 23, 2019, 2:30 PM → 3:30 PM Europe/Berlin

build. 2a, SR2 (DESY Hamburg)

Implications of the Early LHC for Cosmology

DESY, Hamburg
18-20 April 2012
indico.desy.de/event/Early_LHC_Cosmology

Invited Speakers:

- K. Danzmann (IGP, AEI Hannover)
- J. Garcia-Bellido (Madrid)
- S. Grojean (CERN)
- J. Haller (Hamburg)
- V. Mukhanov (LMU Munich)
- H.-P. Nilles (Bonn)
- S. Pokorski (Warsaw)
- A. Ringwald (DESY)
- V. Rubakov (INR Moscow)
- M.Shaposhnikov (Lausanne)
- S.-H. Tye (Cornell, IAS Hongkong)
- T. Yanagida (IPMU Tokyo)*

*to be confirmed

Topics:
- The Higgs Sector
- Status of Supersymmetry
- Inflation
- Cosmological Phase Transitions
- Primordial Gravitational Waves

Public Talk: P. Schleper (Hamburg)

Organizing Committee:

M.Baumgartl
W.Buchmüller
J. Louis
A. Ringwald
T. Konstandin
A. Westphal

AKADEMIE DER WISSENSCHAFTEN IN HAMBURG

Particles, Strings, and the Early Universe
Collaborative Research Center SFB 676

HELMHOLTZ GEMEINSCHAFT

DESY THEORY WORKSHOP
SEPT. 23 - 26, 2014
DESY, Hamburg, Germany

DESY

PARTICLE COSMOLOGY AFTER PLANCK

PLENARY SPEAKERS INCLUDE **Sept. 23 - 26, 2014**

L. Amendola (Heidelberg)
P. Binetruy (APC Paris)
F.R. Bouchet (IAP Paris)
R. Bousso (Berkeley)
T. Bringmann (Oslo)
J. Conlon (Oxford)
R. Durrer (Geneva)
C. Frenk (Durham)
M. Garny (CERN)
J. Garriga (Barcelona)
M. Hindmarsh (Sussex/Helsinki)
R. Kallosh (Stanford)
J. Kopp (MPK Heidelberg)
V. Rubakov (INR Moscow)
D. Schwarz (Bielefeld)
G. Shiu (IAS Hongkong)
R. Sunyaev (MPA Garching)
T.M.P. Tait (Irvine)
N. Toro (Perimeter Inst.)
A. Westphal (DESY)

DESY Heinrich-Hertz Lecture on Physics **Sept. 25, 2014**
A. Linde (Stanford)

PARALLEL SESSIONS AND CONVENORS **Sept. 24 - 25, 2014**

Contributions by young researchers are especially encouraged. Abstracts can be submitted online before 15 August 2014. Limited financial support for young physicists is available upon request.

Cosmology & Astroparticle Physics: S. Antusch (Basel) , H. Päs (Dortmund)

Phenomenology: M. Mühlleitner (Karlsruhe), W. Porod (Würzburg)

Strings & Mathematical Physics: T. Grimm (Munich), M. Staudacher (Berlin)

ORGANIZING COMMITTEE
W. Buchmüller
L. Covi
H. Dreiner
A. Hebecker (chair)
T. Konstandin
J.L. Lehners
D. Lüst
V. Mukhanov
O. Philipsen
G. Sigl

CONTACT
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Ms. J. Herrmann
DESY-Theorie
Notkestr. 85
D-22603 Hamburg
Germany
Email: theorie.sekretariat@desy.de
Tel: +49-(0)40-8998-3590/2413
Fax: +49-(0)40-8998-2777

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A. Hebecker
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Universität Heidelberg
Philosophenweg 19
69120 Heidelberg
Germany
Email: a.hebecker@thphys.uni-heidelberg.de

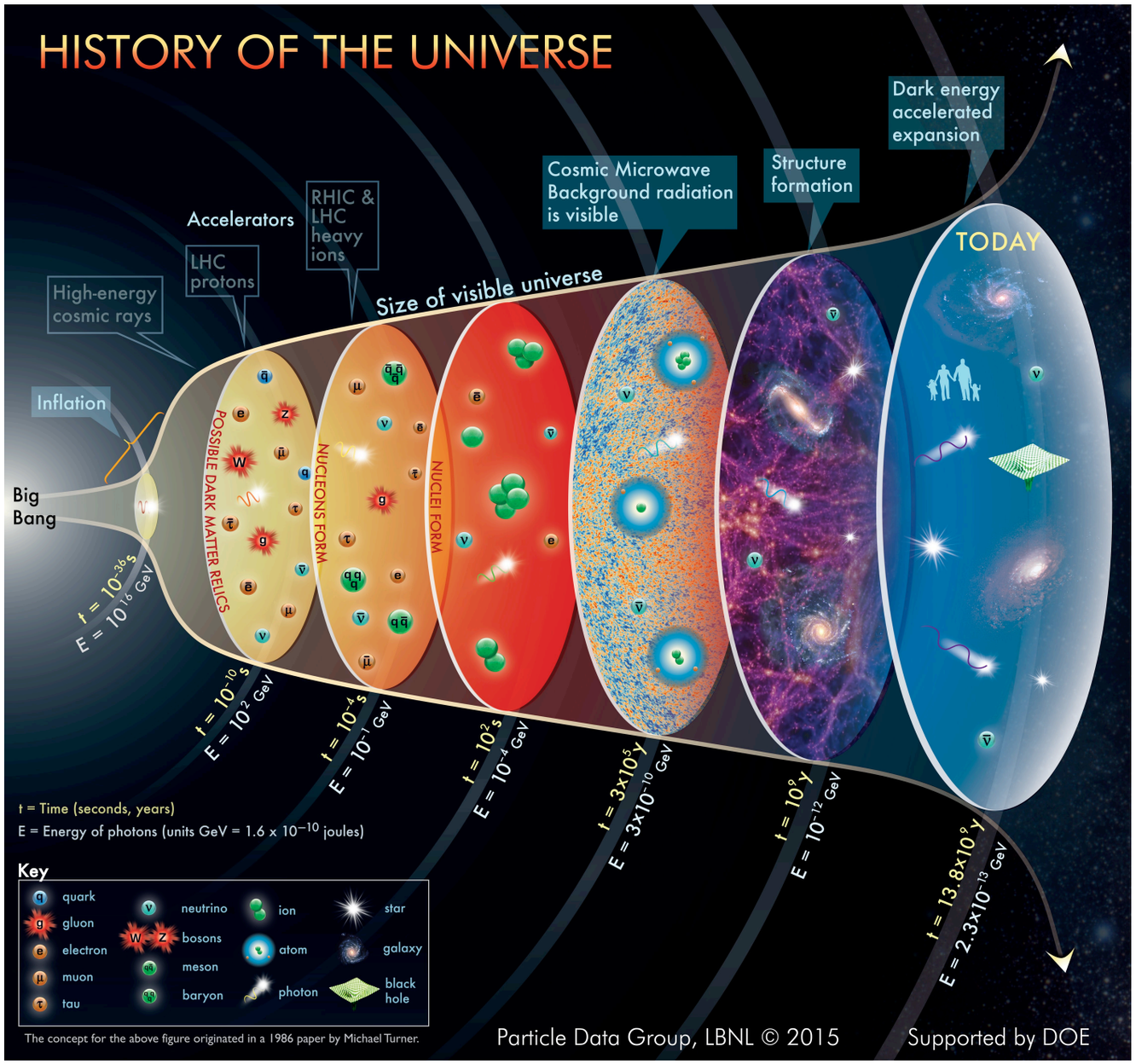
Background image:
"House of Knowledge" (Dalia Klein, 1994)

Web page: http://th-workshop2014.desy.de

Valery Rubakov & Hamburg Research

Higgs, Dark Matter & Cosmology **High energy astroparticle physics** **Formal aspects of mathematical physics and field theory**

Valery incarnates all fundamental research topics being investigated in Hamburg



DESY.

CLUSTER OF EXCELLENCE
QUANTUM UNIVERSE

Universität Hamburg

Hamburg Prize for Theoretical Physics 2020

Valery Rubakov

JOACHIM HERZ STIFTUNG

3-hour Zoom celebration event on 25-11-2020

187 colleagues connected from all over the world!

WOLFGANG-PAULI-CENTRE

A COMPETENCE FIELD OF PIER

PIER

Partnership of
Universität Hamburg and DESY

Theoretical Physics Symposium 2020

November 25, 2020
Europe/Berlin timezone

Enter your search term

Overview

Poster

Support

theorie.sekretariat@des...

The Wolfgang Pauli Centre for Theoretical Physics, a joint forum of the Universität Hamburg and DESY, organizes a mini Symposium to celebrate the Hamburg Prize for Theoretical Physics 2020 which was awarded to Prof. Valery Rubakov this year. The event will consist of two scientific talks. First seminar will be given by Prof. Valery Rubakov, Chief Researcher at Institute for Nuclear Research of the Russian Academy of Sciences in Moscow and Professor at M.V. Lomonosov Moscow State University. The second seminar will be delivered by Prof. Neil Turok, Higgs Chair of Theoretical Physics, University of Edinburgh.

Scientific Programme:

14:30: Valery Rubakov: "Hard job of starting the Universe"
15:30: Neil Turok: "Path Integrals for the Universe"

Zoom link https://desy.zoom.us/j/3544139367
Meeting ID: 354 413 9367
Passcode: WPC251120!

Local organizing committee
Christophe Grojean, Thomas Konstandin, Volker Schomerus, Geraldine Servant, Alexander Westphal.

Actual ceremony at the Hamburg planetarium on 25-11-2021

Picture credit: Joachim Herz Stiftung/Claudia Höhne

Picture credit: Joachim Herz Stiftung/Claudia Höhne

A video extract

WOLFGANG-PAULI-CENTRE
A COMPETENCE FIELD OF PIER

PIER
Partnership of
Universität Hamburg and DESY

Theoretical Physics Symposium 2021

Nov 8 – 12, 2021
DESY Hamburg
Europe/Berlin timezone

Enter your search term

Zoom room: 811 1447 3065, Passcode: 948427

Support
theorie.sekretariat@des...

The Wolfgang Pauli Centre for Theoretical Physics, a joint forum of the Universität Hamburg and DESY, in collaboration with the Clusters of excellence CUI: Advanced Imaging of Matter and the Quantum Universe, organzises a scientific Symposium to honor the Hamburg Prizes for Theoretical Physics 2020 and 2021 which are being awarded to Prof. Valery Rubakov (INR Moskow) and Prof. Eugene Demler (ETH Zuerich), respectively.

The first half of the Symposium on Nov 8-10 is devoted to the work of Valery Rubakov and it will feature scientific talks in the following areas:

- Advanced topics in Quantum Field Theory
- Cosmology
- Modified gravity

The second half of the Symposium on Nov 10-12 is devoted to the work of Eugene Demler and it will feature scientific talks in the following areas:

- Novel phases of matter in quantum many-body systems
- Driven quantum many-body systems
- Topological effects in quantum many-body systems, such as quantum antiferromagnets, quantum spin liquids, etc.
- Nonlinear xray spectroscopy of condensed matter

The award ceremony for the Hamburg Prize for Theoretical Physics is organized by the Joachim Herz Stiftung on November 10 in Hamburg's Planetarium. Participation requires a separate registration.

Recordings of the talks:

Video recordings of the talks are available on the DESY webcast portal (search for WPC 2021).

Confirmed Speakers Nov 8-10

S. Dubovsky (New York U., USA)
E. Dudas (Ecole Polytechnique, Palaiseau, FR)
G. Dvali (LMU and MPI, Munich, DE)
R. Gregory (Kings College, London, UK)
L. Heisenberg (ETH, Zurich, CH)
A. Linde (Stanford U., USA)
Y. Nir (Weizmann Institute of Science, Rehovot, IS)
O. Pujolas (IFAE, Bellaterra, ES)
R. Rattazzi (EPFL, CH)
M. Shaposhnikov (EPFL, CH)
A. Smirnov (MPIK, Heidelberg, DE and ICTP, Trieste, IT)
D. Son (Chicago U., USA)
P. Tinyakov (ULB, BE)
E. Trincherini (SNS, Pisa, IT)

AVIGNON, 2008

Progress on Old and New Themes in cosmology

(PONT d'Avignon 2008)

April 21st - 25th, 2008

Palais des Papes, Avignon, France

ASPEN, 2000

C. Grojean **C. Csaki** **V. Rubakov**

Speakers: present and next

Viktor Matveev
Dmitri Grigoriev
Petr Tinyakov
Vladimir Gavrin
Boris Stern
Vahe Gurzadyan
Alexey Isaev
Andrei Barvinsky
Mikhail Vasiliev
Zurab Berezhiani
Anna Tokareva
Alexander Parkhomenko

Dam Thanh Son
Vyacheslav Spiridonov
Alexander Dolgov
Glennys Farrar
Mikhail Danilov
Yury Kudenko
Gia Dvali
Roman Nevzorov
Wilfried Buchmueller
Geraldine Servant
Alexander Belyaev

THANK YOU

We proceed with the Welcome party