15 Years of the

In 15 (?) minutes

Goran Djordjević
Executive Director of the SEENET-MTP
Faculty of Sciences and Mathematics and
SEENET-MTP Centre
Niš, Serbia

IFIN-HH & University - Bucharest, Romania
23 April, 2018
<table>
<thead>
<tr>
<th>Oberwölz Stadt</th>
<th>Нишко породилиште/Spitalul de maternitate</th>
<th>Biergarten Munich</th>
</tr>
</thead>
<tbody>
<tr>
<td>Österreich</td>
<td>Дудук</td>
<td>BW2003, Vrnjačka Banja, Srbija</td>
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<tr>
<td>Julius Wess, man</td>
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I Background

SEENET-MTP - a regional story

- Hoping for bridging the gap between Southeastern and Western European scientific community, the participants of the UNESCO sponsored BALKAN WORKSHOP BW2003 "Mathematical, Theoretical and Phenomenological Challenges Beyond the Standard Model: Perspectives of Balkans Collaboration" (Vrnjacka Banja, Serbia, August 29 - September 3, 2003) came to a common agreement on the Initiative for the SEENET-MTP NETWORK.

- The Network was a natural extension of the WIGV initiative (Wissenschaftler in globaler Verantwortung) launched by J. Wess in 1999.

- Structure Development 2004 - 2017
  - 23 institutions from 11 countries in the region joined the Network
  - 13 partner institutions all over the world
  - about 400 individual members
Main Objectives and Aims

- **Provide a regional framework** for the institutional capacity-building in Mathematical and Theoretical Physics

- **Strengthening of close relations and cooperation** among faculties of science, research institutions and groups, including individual scientists in South-East Europe

- **Joint scientific and research activities** in the region and fostering interregional collaboration, foremost in a European context, but also with a strong worldwide dimension

- **Support capacity building in physics**, mathematics and other sciences and technology by initiating new approaches to teaching physics and sciences

- **Promote the exchange of students** and encouraging communication between gifted pupils

- Promote physics and science in general

- Support the establishment of local and regional centres of excellence in physics and mathematics
I Background

Web portal: www.seenet-mtp.info
II Current structure and status

Full Member Nodes (15)

- Mathematical Institute SANU
  Belgrade, Serbia
- Astronomical Observatory
  Belgrade, Serbia
- Faculty of Physics, University of Belgrade
  Belgrade, Serbia
- National Institute for Physics and Nuclear Engineering
  Bucharest, Romania
- Faculty of Physics, University of Bucharest
  Bucharest, Romania
- Institute for Applied Physics
  Chisinau, Moldova
- Faculty of Physics, University of Babes-Bolyai
  Cluj-Napoca, Romania
- Faculty of Mathematics and Natural Sciences, University of Craiova
  Craiova, Romania
Full Member Nodes (15)

- Physics Department, Mimar Sinan Fine Arts University
  Istanbul, Turkey

- Faculty of Sciences and Mathematics, University of Kragujevac
  Kragujevac, Serbia

- Bogolyubov Institute for Theoretical Physics, National Academy of Science of Ukraine
  Kyiv, Ukraine

- Faculty of Sciences and Mathematics, University of Niš
  Niš, Serbia

- Theoretical Physics Department, Faculty of Physics, Sofia University
  Sofia, Bulgaria

- Section of Nuclear and Particle Physics, Aristotle University of Thessaloniki
  Thessaloniki, Greece

- Faculty of Physics, West University of Timisoara
  Timisoara, Romania
II Current structure and status

Other Network Nodes (8)

- Cankaya University
  Ankara, Turkey
- Institute of Physics*
  Belgrade, Serbia
- Bogazici University
  Istanbul, Turkey
- Faculty of Science, University of Sarajevo
  Sarajevo, Bosnia and Herzegovina
- Faculty of Science and Mathematics, University of Skopje
  Skopje, Macedonia
- The Institute for Nuclear Research and Nuclear Energy
  Sofia, Bulgaria
- Department of Physics, University of Vlora
  Vlora, Albania
- Faculty of Sciences, University of Zagreb
  Zagreb, Croatia
Partner Institutions (13)

- Department of Physics and Astronomy, The Johns Hopkins University
  Baltimore, USA
- Department of Physics, Faculty of Science and Mathematics
  Banja Luka, Bosnia and Herzegovina
- Department of Physics, Buffalo University
  Buffalo, USA
- Theoretical Physics, CERN
  Geneva, Switzerland
- Mathematics Department, Lusofona University
  Lisbon, Portugal
- Department of Theoretical Physics, Jozef Stefan Institute
  Ljubljana, Slovenia
- Lab 170, ITEP
  Moscow, Russia

II Current structure and status
II Current structure and status

Partner Institutions (13)

- String Theory Group, LMU and MPI
  Munich, Germany
- Algebraic Structures in Field Theory Group, CBPF
  Rio de Janeiro, Brasil
- The High Energy, Cosmology & Astroparticle Physics Section, ICTP
  Trieste, Italy
- International School for Advanced Studies (SISSA)
  Trieste, Italy
- Particle Physics Group, Inst. for Theoretical Physics, Vienna University of Technology
  Vienna, Austria
- Department of Statistics, Faculty of Science, University of Warwick
  Warwick, UK
The Scientific Advisory Committee (SAC) includes a number of outstanding and leading international researchers from both the Southeastern European region (SEE) and other regions of the world.

The main responsibilities of the SAC (since 2017) are the following:

- Advise the network on the scientific topics to promote and on the corresponding actions to take
- Advise the network on the scientific events to organise
- Help the network on preparing applications
- Propose funding opportunities
Scientific Advisory Committee (2017 - )

- **Ignatios ANTONIADIS**, Coordinator
  LPTHE, UMR CNRS
  Paris, France
  Institute for Theoretical Physics
  Bern, Switzerland

- **Loriano BONORA**
  International School for Advanced Studies (SISSA)
  Trieste, Italy
II Current structure and status

Scientific Advisory Committee

- Lars BRINK
  Department of Fundamental Physics, Chalmers University of Technology
  Göteborg, Sweden

- Emilian DUDAS
  CPHT, Ecole Polytechnique
  Palaiseau, France
II Current structure and status

Scientific Advisory Committee

- **Georgi DVALI**
  String Theory Group, LMU and MPI Munich, Germany
  Center for Cosmology and Particle Physics
  New York, USA

- **Marc HENNEAUX**
  Physique Théorique Et Mathématique, Université Libre De Bruxelles
  Bruxelles, Belgium
II Current structure and status

Scientific Advisory Committee

- **Alexei MOROZOV**
  Institute of Theoretical and Experimental Physics
  Moscow, Russia

- **Fernando QUEVEDO**
  The High Energy, Cosmology & Astroparticle Physics Section, ICTP
  Trieste, Italy
II Current structure and status

Scientific Advisory Committee

- Ioannis RIZOS
  Department of Physics, University of Ioannina
  Ioannina, Greece

- Timo WEIGAND
  Theoretical Physics, CERN
  Geneva, Switzerland
II Current structure and status

Scientific Advisory Committee (2003-2016)

- Luis ALVAREZ-GAUME
  CERN (Geneva, Switzerland)

- Ignatios ANTONIADIS, Coordinator
  Institute for Theoretical Physics (Bern, Switzerland)

- Metin ARIK
  Bogazici University (Istanbul, Turkey)

- Jonathan BAGGER
  The Johns Hopkins University (Baltimore, USA)

- Loriano BONORA
  International School for Advanced Studies - SISSA (Trieste, Italy)

- Lars BRINK
  Chalmers University of Technology (Göteborg, Sweden)

- Emilian DUDAS
  CPHT, Ecole Polytechnique (Palaiseau, France)

- Georgi DVALI
  String Theory Group, LMU and MPI (Munich, Germany)

- Nemanja KALOPER
  University of California (Davis, USA)

- ...
II Current structure and status

Scientific Advisory Committee (2003-2016)

- **Coordinators:**
  - Prof. Julius WESS (2003 - 2007)
  - Prof. Goran SENJANOVIC (2008 - 2013)
  - Prof. Ignatios ANTONIADIS (2014 - )
He has been with us ... !

- **Julius Wess** (1934 – 2007)
  Max-Plank-Institut für Physik
  München, Germany

- Founder of the WIGV initiative – Scientists in Global Responsibility
- One of the founders of the SEENET-MTP
- Coordinator of SAC (2003 - 2007)
- Director of the Max-Plank-Institut für Physik
Executive Committee

- The primary objectives of the Executive Committee (EC) are
  - **elaboration** of the Network Program,
  - **implementation** of the Network program, and
  - **expansion** of the Network’s financial base

Full member nodes from each country are represented by one member in the EC. Countries with 3 and more full member nodes can delegate up to 2 EC members.

Depending on the budget, the EC has at least 1 annual meeting.

- The president of the EC is the Executive Director of the SEENET-MTP and its Office
Executive Committee

- Viorel CIORNEA
  Institute for Applied Physics (Chisinau, Moldova)

- Hristo DIMOV
  Faculty of Physics, Sofia University (Sofia, Bulgaria)

- Goran DJORDJEVIC, Executive director
  Faculty of Sciences and Mathematics, University of Niš (Niš, Serbia)

- Marijan MILEKOVIC
  Faculty of Sciences, University of Zagreb (Zagreb, Croatia)

- Argyris NIKOLAIDIS
  Aristotle University of Thessaloniki (Thessaloniki, Greece)

- Yurii SITENKO
  Bogolyubov Institute for Theoretical Physics, National Academy of Science (Kyiv, Ukraine)

- Kayhan ULKER
  Physics Department, Mimar Sinan Fine Arts University (Istanbul, Turkey)

- Mihai VISINESCU
  National Institute for Physics and Nuclear Engineering (Bucharest, Romania)
II Current structure and status

Representative Committee
full member nodes

- Network Nodes are represented in the Representative Committee (RC) by one person. Members of the RC are included in the preparation and implementation of Network's activities. Depending on the budget, the RC has at least one biannual meeting. Representatives of the "non-full" member nodes are excluded from the voting related to financial issues. RC elects its president.

- The president of the RC is also the President of the SEENET-MTP Network. In the period between 2003 and 2009 the executive role in the Network was performed by the coordinator.

Presidents:
- Prof. Radu CONSTANTINESCU (2009 – 2013)
- Prof. Dumitru VULCANOV (2013 – )

Vicepresident
- Dr Boyka ANEVA (2013-2015)

Coordinator:
- Prof. Goran DJORDJEVIC (2003 – 2009)

Transition of presidency, nearby Orsova, Romania, August 29th, 2013.
II Current structure and status

Representative Committee

- **Viorel CIORNEA**
  Institute for Applied Physics (Chisinau, Moldova)

- **Radu CONSTANTINESCU**
  Faculty of Mathematics and Natural Sciences, University of Craiova (Craiova, Romania)

- **Marija DIMITRIJEVIC CIRIC**
  Faculty of Physics, University of Belgrade (Belgrade, Serbia)

- **Hristo DIMOV**
  Faculty of Physics, Sofia University (Sofia, Bulgaria)

- **Goran DJORDJEVIC**
  Faculty of Sciences and Mathematics, University of Niš (Niš, Serbia)

- **Vladimir DRAGOVIC**
  Mathematical Institute SANU (Belgrade, Serbia)

- **Miroljub DUGIC**
  Faculty of Sciences and Mathematics, University of Kragujevac (Kragujevac, Serbia)

- **Predrag JOVANOVIC**
  Astronomical Observatory (Belgrade, Serbia)
II Current structure and status

Representative Committee

- **Alexandru MARCU**
  Faculty of Physics, University of Babes-Bolyai (Cluj- Napoca, Romania)

- **Argyris NIKOLAIDIS**
  Aristotle University of Thessaloniki (Thessaloniki, Greece)

- **Nikolai IORGOV**
  Bogolyubov Institute for Theoretical Physics, National Academy of Science (Kyiv, Ukraine)

- **Kayhan ULKER**
  Physics Department, Mimar Sinan Fine Arts University (Istanbul, Turkey)

- **Mihai VISINESCU**
  National Institute for Physics and Nuclear Engineering (Bucharest, Romania)

- **Dumitru VULCANOV**, President
  Faculty of Physics, West University of Timisoara (Timisoara, Romania)

- **Roxana ZUS**
  Department of Physics, Faculty of Physics, University of Bucharest (Bucharest, Romania)
The decision to form the SEENET-MTP Office was brought by the members of the Executive Committee during the Scientific Meeting QM2005 in November 2005 in Niš.

The decisions that the SEENET-MTP Office with temporary headquarters in Niš grows into a permanent office at the Faculty of Sciences and Mathematics Niš and that the Executive Director of the Network is also the Director of the SEENET-MTP Office were adopted at the RC meeting during the Scientific Meeting SSSCP2009 in Niš, April 2009.

The SEENET-MTP Office as a Division of the Faculty Center for Advanced Study in Natural and Mathematical Sciences exists since March 2011.

Scientific secretary – Dr. Dragoljub Dimitrijevic (2011 - )

Web master – Dr. Milan Milosevic (2005 - )
The SEENET RC decided at its meeting in Timisoara, Romania (November 2012) to explore the possibility and means of the SEENET-MTP becoming a legal entity, to represent the Network in project activities and agreements in the future.

The SEENET RC decided at its meeting in Vrnjačka banja, Serbia (April 2013) to establish the SEENET-MTP Centre as the legal entity, and the EC and Niš Office were given the task of carrying out the decision.

The SEENET-MTP Centre was created in 2017.

- **BW2003** - Mathematical, Theoretical and Phenomenological Challenges Beyond the Standard Model (Vrnjacka Banja)
- **BW2005** - II SEE Workshop: Challenges Beyond the Standard Model (Vrnjacka Banja)
- **QM2005** - Quantum Models on Noncommutative and Deformed Spaces (Nis)
- **STMP2006** - Selected Topic in Modern Physics (Nis)
- **SQ2007** - New methods in string theory and quantization (Nis)
- **SQIQC07** - School Of Quantum Information And Quantum Computation (Kragujevac)
- **BW2007** - III Southeastern European Workshop: Challenges Beyond the Standard Model (Kladovo)
- **SSSCP2009** - Spring School on Strings, Cosmology and Particles (Belgrade/Nis)
- **BSI2011** - Balkan Summer Institute 2011 (Donji Milanovac)
  - **BSS2011** Seminar: Trends in Modern Physics
  - **BS2011** School: Cosmology and Particle Physics Beyond the Standard Models
  - **JW2011** Workshop: Scientific and Human Legacy of Julius Wess
  - **BW2011** Workshop: Particle Physics from TeV to Plank Scale
- **BW2013** – Beyond the Standard Models (Vrnjacka Banja)
- **2015** – 1st CERN – SEENET-MTP PhD Training Program, (Belgrade)
III Past activities

Network meetings in the region (14+) (2006-2017)

- **QFTHS2006** - The Spring School in Quantum Field Theory and Hamiltonian Systems (Craiova, Romania)
- **MMP2006** - International School on Modern Trends in Mathematical Physics (Sofia, Bulgaria)
- **NTST2008** - International Workshop on New Trends in Science and Technology (Ankara, Turkey)
- **MMP2008** - International School on Modern Trends in Mathematical Physics (Varna, Bulgaria)
- **QFTHS2010** - Spring School and Workshop in Quantum Field Theory and Hamiltonian Systems (Craiova & Calimanesti, Romania)
- **QFTHS and Science Policy 2012** - The Joint Meeting on Mathematical Physics and Science Policy (Craiova, Romania)
- **TIM-13** – Physics Conference (Timisoara, Romania)
- **QFTHS 2014** - Quantum Field Theory and Hamiltonian Systems (Sinaia, Romania)
- **TIM-14** – Physics Conference (Timisoara, Romania)
- **2015** - “Lights of the World” (Craiova/Bucharest, Romania)
- **2015** – 2\(^{nd}\) CERN – SEENET-MTP PhD Training Program (Bucharest, Romania)
- **2016** – Physics Conference TIM15-16 (Timisoara, Romania)
- **2016** – 3\(^{rd}\) CERN – SEENET-MTP PhD Training Program (Timisoara, Romania)
- **2017** – 4\(^{th}\) CERN – SEENET-MTP PhD Training Program (Sofia, Bulgaria)
Network meetings in Romania (2006-2018)

- **QFTHS2006** - The Spring School in Quantum Field Theory and Hamiltonian Systems (Craiova, Romania)
- **QFTHS2010** - Spring School and Workshop in Quantum Field Theory and Hamiltonian Systems (Craiova & Calimanesti, Romania)
- **QFTHS and Science Policy 2012** - The Joint Meeting on Mathematical Physics and Science Policy (Craiova, Romania)
- **TIM-13** – Physics Conference (Timisoara, Romania)
- **QFTHS 2014** - Quantum Field Theory and Hamiltonian Systems (Sinaia, Romania)
- The Workshop “Widening Participation of CEI Countries in the EU Research Programs”, Bucharest, Romania, **25 – 27 May 2014**
- **TIM-14** – Physics Conference (Timisoara, Romania)
- **2015** - “Lights of the World” (Craiova/Bucharest, Romania)
- **2015** – 2nd CERN – SEENET-MTP PhD Training Program (Bucharest, Romania)
- **2016** – Physics Conference TIM15-16 (Timisoara, Romania)
- **2016** – 3rd CERN – SEENET-MTP PhD Training Program (Timisoara, Romania)
- **2018 The Joint Meeting on Quantum Fields and Nonlinear Phenomena**, 18-22 April 2018, Sinaia, Romania
Personal participation - Bucharest

- S. Berceanu
- M. Visinescu
- A. Isar
- M. Babalic
- C. Babalic
- B. Popovici
- R. Zus
- ~ 20+ students
III Past activities

SEENET-MTP Projects (15+?)

- UNESCO project CFS 15-76 4500285240 – “Lights of World - Basic and Engineering Sciences in South Eastern Europe” (2015-2016) (University of Craiova)
- CEI Project “Beyond the Standard Models 2013”, 1202.081-13 (2013) with EPS
- UNESCO Project CFS 13-10 N4500194266 (2013)
- ICTP Project “Cosmology and Strings”, PRJ-09 (2011-2016)
- DAAD and French Institute “Beyond the Standard Models 2011” (2011)
- ICTP Project “Beyond the Standard Models 2011”
- UNESCO Project “Mathematical and Theoretical Physics SEE”, AFC 11-18 n.: 4500143843 (2011)
SEENET-MTP Projects

- The Bavarian State Ministry of Sciences and the Arts and Ludwig-Maximilian University, Munich, Mobility program "String Theory and Theoretical Physics" (2009-2010)
- ICTP Project "Strings and Cosmology", PRJ-09 (2009 - 2010)
- UNESCO Project (SEENET-MTP)
  - No 875.854.7 (2007-2008)
  - No. 875.834.6 (2006-2007)
  - No. 875.914.5 (2005-2006)
  - No. 875.728.3 (2003)

Approximately: total amount in 14 years ~500.000 EUR
III Past activities

Partnership in EU projects

- ITN, Marie Curie Initial Training Network "UNILHC" (Unification in the LHC era) PITN-GA-2009-237920 (2009 - 2013)
Main Activities and results - Summary

- Mobility and training program:
  - About 300 exchanges (both researchers and students) in the region (2003-2018) on average 20 per year
  - Duration of visits: one week (for students up to one month)

- Network meetings: ~ 30 meetings in 15 years, (about 1500 participants)

- Publications - Monographs, Network Conference Proceedings: about 15 issues

- SEENET-MTP web portal became one of the most popular source of information concerning MTP in our region
III Past activities

Results

More than 225 scientific papers inParticle Physics, Quantum Field Theory, Cosmology and related fields published with an acknowledgement to these projects and programs

11 projects with UNESCO

3 Projects with ICTP

1 Project with the Bavarian Ministry for research

3 projects with CEI Trieste

One multilateral project: ICTP, UNESCO Venice, EPS, CEI and SEENET-MTP

A number of other smaller projects with DAAD, DFG and other partners
Promotion of science in particular physics (main activities in Serbia and Romania):

- 30 lectures and 3 books
- 3 Meetings and Competitions of High School students and undergraduate students: “Science and Society” in Craiova and Turnu Severin (Romania) in 2008, 2009 and 2011, including teachers’ meetings and training
- Specialized class for high school students with particular interests in natural sciences, Nis (2003), Belgrade-Zemun (2015), Novi Sad (2016) Serbia
SEE-CEI-ERA Project (2013-14)

- Towards the integration of the physics community in CEI countries into the ERA (SEE-CEI-ERA)
- Consortium: EPS, ICTP, UNESCO Office Venice and SEENET-MTP Network
  - Supported by CEI Trieste
  - Most of the activities during year 2014
- Part of the activities of the EPS Committee of European Integration
- The aim of the project - to bring together scientists, EU officials and science policy experts, representatives of the SEENET-MTP, to establish a partnership between leading scientific institutions and researchers from South-Eastern, Central-East and Western European countries, as well as to consider concrete calls and forthcoming calls for joint projects
SEE-CEI-ERA Project

► Workshop in Bucharest,
25 - 27 May 2014
“Widening Participation of CEI Countries in the EU Research Programs”
- Training-Research in (Theoretical) Physics

► Workshop in Sofia,
November 23 - 25, 2014
“Promotion of physics in the CEI countries and Integrating Access to Research Infrastructures in Europe”

► Workshop in Trieste,
December 11-12th, 2014
“Workshop on Physics Education”
Some outcomes

- mRIDGE - Using mobile technology to improve policy Reform for Inclusion of Disadvantaged Groups in Education
  Project number: 562113-EPP-1-2015-1-BG-EPPKA3-PI-FORWARD

- CERN - SEENET Agreement and PhD Program
III Past activities

Some of Network’s publications

“Cosmology and Particle Physics beyond Standard Models”
- Ten Years of the SEE-NET-MTP Network -

Romanian Journal of Physics
Publishing House of the Romanian Academy

Volume 57, Number 5-6, 2012

Papers presented at the Fourth Southeastern European Workshop
Particle Physics from TeV to Planck Scale - BN2011

Dimitrovgrad, Serbia, 25 August - 1 September 2011

Editors:
Luiz Alves-Carneiro
Corina Oprea
Corin Serbanescu
Mihai Vintea

THEORETICAL PHYSICS

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Preface

Full text: PDF

World Scientific
Connecting Great Minds

International Journal of Modern Physics: Conference Series (IJMPCS)

Current Volume | Published Volumes

Volume: 13 (2012)
Proceedings of the Workshop of Scientific and Human Legacy of Julius Wess (SWJW2011; Editors: Peter Friese, Peter Schupp)

Preface

Marcin Kozlowski, Corina Djordjevic, Gasper Fodor and Peter Schupp
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Abstract | Full Text - Open Access (PDF: 4460)
III Past activities

The SEENET-MTP in Media

Ten years ago, a project to establish a Balkan network in mathematical and theoretical physics took shape. Goran Djordjević looks at the origins of SEENET-MTP and how it developed.

Peyanski: 1840 to 1990, the development of scientific educational and research, expensive equipment in the Balkan countries, and the establishment of the Balkan network in mathematical and theoretical physics took shape. Goran Djordjević looks at the origins of SEENET-MTP and how it developed.

News from Europe

10 Years of the SEENET-MTP

Under the aegis and with the support of the European Physical Society (EPS), the SEENET-MTP in Media III Past activities

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Ten years ago, a project to establish a Balkan network in mathematical and theoretical physics took shape. Goran Djordjević looks at the origins of SEENET-MTP and how it developed.

Peyanski: 1840 to 1990, the development of scientific educational and research, expensive equipment in the Balkan countries, and the establishment of the Balkan network in mathematical and theoretical physics took shape. Goran Djordjević looks at the origins of SEENET-MTP and how it developed.

News from Europe

10 Years of the SEENET-MTP

Under the aegis and with the support of the European Physical Society (EPS), the SEENET-MTP in Media
III Past activities - some vintage photos

Once upon a time, in Niš, Kladovo, Srbija

2003

2005

2007

ROMANIA
III Past activities - more recent photos - 2013!
Ongoing activities ...
IV Ongoing activities

Ongoing Projects

- **ICTP - SEENET-MTP - NT03 “Cosmology – Classical and Quantum Challenges” (2017-)**
  - Main topics: Particle physics, Field and String theory applications in Cosmology
  - 25 exchanges in 2017. Approved budget – 10,000 EUR

- **CERN – SEENET-MTP PhD Training Program in HEP (2015-)**
  - 4 schools were organized
  - Agreement and Addendum are at a separate slide.
  - Approved Budget in 2015 – 40,000 CHF. 18,000 CHF spent.
  - Approved Budget in 2016, 2017 – 5 kCHF annually (2018?).
  - Others, 2017-2018 total: ICTP (6,000 EUR +), EPS (6500 EUR)
  - CEI (5000EUR)
CERN - SEENET-MTP PhD program (2015-2018 ...)

- The main part - a series of intense, self-connected, one-week seminars for PhD students
- In some exceptional cases, Master students as well as young postdocs could be included
- Each seminar should include lectures followed by appropriate exercises ...
- It WAS planned to organize 3-5 seminars per year, but ...
- Travel expenses and most of the local expenses are to be covered by the program. The selection of students and the coordination of the program are the joint responsibility of the Program Committee and the local organizers of the particular events
- Some high-level institutions from Europe have been invited to join and support the program ...
IV Ongoing activities

FRAMEWORK AGREEMENT FOR SCIENTIFIC AND TECHNICAL COLLABORATION

REFERENCE KN3487

(the "Agreement")

BETWEEN: THE SOUTHEASTERN EUROPEAN NETWORK IN MATHEMATICAL AND THEORETICAL PHYSICS ("SEENET-MTP"), a regional Network located at Niš, Serbia, duly represented by Professor Goran Đorđević, Executive Director,

AND: THE EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH ("CERN"), an Intergovernmental Organization having its seat at Geneva, Switzerland, duly represented by Professor Gian Giudice, Head of Theoretical Physics Department,

hereinafter "Party" and collectively "Parties".

CONSIDERING:

That CERN, an Intergovernmental Organization, is a leading global laboratory in particle physics, providing for collaboration of a pure scientific and fundamental character, with participation by scientific institutes from all over the world;

That SEENET-MTP, an association of 22 Institutions from 11 European countries, is a leading Network in regional and interregional cooperation in research, training and capacity building in Theoretical and Mathematical Physics;

That the Parties wish to collaborate in domains of mutual interest, including in particular in training, capacity building and research in Theoretical High Energy Physics, Particle Physics, Computational Physics and Cosmology;

The mutual benefit that the Parties would derive from collaboration between them,

AGREE AS FOLLOWS:

Article 1
Purpose

This Agreement establishes the framework for collaboration between the Parties in domains of mutual interest, including in particular in training, capacity building and research in Theoretical High Energy Physics, Particle Physics, Computational Physics and Cosmology. The implementation of this Agreement by the Parties shall be subject to availability of resources at the Parties. The Parties shall use the results of their collaboration for non-military purposes only.

Article 2
Project

2.1 Each Party’s contribution to a specific collaboration ("Project"), including, where applicable, the required resources, the duration of the activities and any deliverables and milestones shall be set out in an Addendum to this Agreement, which shall form an integral part of this Agreement.

2.2 Except as agreed otherwise by the Parties, each Party shall bear the cost of its participation in the collaboration and the Project(s).

Article 3
Experts

Each Party shall ensure the selection of experts with the necessary skills and competence to execute each Project on its behalf, taking into account the nature and the environment of the activities.

Article 4
Conduct and safety

4.1 The experts shall comply with the rules of conduct and safety in force at the host Party.

4.2 Any activity, equipment or other item contributed by a Party to the collaboration shall conform to the safety rules, including any specific safety requirements in force at the host Party where such activity will be performed or such equipment or other item will be installed and operated.
IV Ongoing activities

Article 10
Coordination

The Parties shall each nominate a technical co-ordinator, who together shall coordinate the overall execution of this Agreement, as well as a safety correspondent who will be responsible for safety matters. Their names and contact details are set out in Annex 1. It is understood that where necessary the Parties may decide to nominate a different technical co-ordinator for each specific Project, whose name and contact details shall be set out in the relevant Addendum.

Article 11
Amendments

Any amendment to this Agreement shall be made in writing and signed by the authorized representatives of the Parties.

Signed in two copies, one for CERN and one for SEENET-MTP.

The Southeastern European Network in Mathematical and Theoretical Physics (SEENET-MTP)

Goran Dordević
Executive Director
on .......... 2017

The European Organization for Nuclear Research (CERN)

Gian Giudice
Head of Theoretical Physics Department
on .............. 2017

Annex 1: Co-ordinators and safety correspondents

For CERN:

Prof. Gian Giudice, Head of Theoretical Physics Department

For SEENET-MTP:

Prof. Goran Dordević, Executive Director
CERN - SEENET-MTP PhD program

- **Seminars:**
  - Belgrade (Serbia), 21–27 June, 2015
    “Supergravity”
  - Bucharest (Romania), 8-14 November, 2015
    “Modern Aspects of Quantum Field Theory”
  - Timisoara (Romania), 11-17 December, 2016
    “Computational methods in Cosmology and General Relativity”
  - Sofia (Bulgaria), 15-21 October, 2017

- **The next seminar/school:**
  - High Energy and Particle Physics: Theory and Phenomenology - BS2018
    June 3 - 9, 2018, Niš, Serbia
### CERN - SEENET-MTP PhD Program - Wishlist -

<table>
<thead>
<tr>
<th>Topic</th>
<th>Freq</th>
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</thead>
<tbody>
<tr>
<td>Mathematical methods in quantum physics</td>
<td>9</td>
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<tr>
<td>Supersymmetry</td>
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<tr>
<td>Adv. math. subjects with application in phy.</td>
<td>8</td>
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<tr>
<td>General relativity</td>
<td>8</td>
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<tr>
<td>Particle physics</td>
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<td>Quantum field theory</td>
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<td>Supergravity</td>
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<td>Cosmology</td>
<td>7</td>
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<td>Nonlinear dynamics</td>
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<td>String theory</td>
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<td>Gravitation</td>
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<td>Astrophysics and cosmology</td>
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<td>Hadronic physics</td>
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<td>Integrable systems</td>
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<td>Inflation</td>
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<td>Condensed Matter Physics</td>
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<td>Mathematical Physics</td>
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<td>Neutrino Physics</td>
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<td>Path integrals</td>
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<td>Black holes</td>
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<td>Astroparticle physics</td>
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<td>Batalin-Vilkovisky formalism</td>
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<td>Collider phenomenology</td>
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<td>Complex Phenomena in Spatial Plasma Phy.</td>
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<td>Composite Higgs</td>
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<td>Computational physics</td>
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<td>Conformal field theory</td>
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<td>Dark matter</td>
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<td>Exotic stars</td>
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<td>Gauge/gravity duality</td>
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<td>Higher spin theories</td>
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<td>Lattice QCD</td>
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<td>Nuclear Physics</td>
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<td>Observational cosmology</td>
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<td>QCD</td>
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<td>Renormalization group in SUSY theories</td>
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<td>Soft Matter Physics</td>
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<td>Sterile neutrinos</td>
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<td>Superstrings</td>
<td>1</td>
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<tr>
<td>Topological field theories</td>
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</tbody>
</table>
**IV Ongoing activities**

**CERN – SEENET-MTP PhD Program**
- Students (92 were registered) -

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- Darius Faroughy, Darius.faroughy@ijs.si
IV Ongoing activities

CERN – SEENET-MTP PhD Program
- Students (92 were registered) -

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- Petar Kokarchev NULL
- Tsevetan Vetsov NULL
- Stefan Mladenov NULL
- Boyan Lazov NULL
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- Dimitar Popchev NULL

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- Kalamakis NULL
- Filotheodoros NULL
- Aliferis NULL
- Jaehoon Jeong NULL
- Vasilis Kiosses NULL

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IV Ongoing activities

CERN – SEENET-MTP PhD Program - Students (92 were registered) -

- Belgrade -
  - Dragoljub Gočanin, Nikola Konjik, Dejan Simić, Biljana Nikolić, Dragan Prekrat, Luka Nenadović, Tijana Radenkovic

- Bucharest -
  - Dumitriu Ana Elena, Iancu Vicentiu, Baran Virgil, Romanitan Cosmin, Giubega Lavinia Elena, Tatiana Mihaescu, Tarna Grigore, Stroe Mircea, Valcea Valentin, Eliza Teodorescu, Orlandea Marius Ciprian, Babalic Nicoleta Corina, Cristinel Stoica

- Craiova -
  - Pauna Alina-Maria, Predatu Marian

- Istanbul -
  - Vildan Keles Tugyanoglu, Oguzhan Kasikci, Basak Ekinci, Taygun Bulmus, Mehmet Helva, Devin Cesmecioglu, Ozlem Ozcelik

- Kiev -

- Ljubljana -
  - Darius Faroughy

- Niš -
  - Dragoljub Dimitrijevic, Milan Milosevic, Darko Radovancevic, Marko Dimitrijevic, Igor Petrovic, Marko Stojanovic, Danilo Delibasic

- Sofia -
  - Zhivko Stoyanov, Yulia Mutafchieva, Kalin Marinov, Dimitar Nedanovski, Stanislav Varbev, Aleksander Stefanov, Petar Kokarchev, Tsevetan Vetsov, Stefan Mladenov, Boyan Lazov, Kalin Staykov, Lachezar Simeonov, Kaloyan Zlatanov, Dimitar Popchev

- Thessaloniki -
  - Iosefidis, Kalamakis, Filotheodoros, Aliferis, Jaehoon, Jeong, Vasilis Kiosses

- Timisoara -
  - Chilom Alin, Sporea Adrian Ciprian, Baloi Mihaela-Andrea, Blaga Robert Christian, Busuioc Sergiu, Roman Roxana

- Zagreb -
  - Tamara Stemberga, Goran Popara, Petar Culjak, Anamaria Kirin, Danijel Pikutic, Boris Ivetic, Dijana Tolic, Bruno Klajn, Tajron Juric, Luka Popov, Silvije Domazet
V Problems, needs, perspectives ...

You are on move ... !
V Perspectives, problems and needs

Forthcoming Network events

High Energy and Particle Physics: Theory and Phenomenology, Nis, Serbia, June 3-9, 2018

Balkan Workshop 2018

Field Theory and the Early Universe (June 10-14, 2018)
http://bw2018.seenet-mtp.info/

15 Years of the SEENET-MTP - During BSW 2018 a small joint program with EPS (on its 50 anniversary) is possible
SEENET-MTP School and Workshop BSW2018
SCHOOL ON HIGH ENERGY AND PARTICLE PHYSICS: THEORY AND PHENOMENOLOGY

5th School in the CERN–SEENET-MTP PhD Training Program

3 - 10 June, 2018, Niš, Serbia

15th Anniversary of the SEENET-MTP Network

Lecturers:
- Paolo Creminelli (ICTP)
- Emilian Dudas (CPHT Paris)
- Gia Dvali (LMU-MPI Munich/NYU New York)
- Kyriakos Papadodimas (CERN)
- Sergey Sibiryakov (CERN)
- Giovanni Villadoro (ICTP)

Guest Lecturers:
- Alexei Starobinsky (Landau Institute for TP, Moscow)

Organizers:
- Faculty of Sciences and Mathematics
  University of Niš, Serbia
- Faculty of Mathematics and Natural Sciences
  University of Craiova, Romania
- SEENET-MTP Centre Niš

Codirectors:
- I. Antoniadis (Bern, Switzerland/Paris, France),
- P. Creminelli (ICTP),
- G. Djordjevic (Niš, Serbia),
- G. Dvali (LMU/MPI, Germany),
- A. Morozov (ITEP, Russia),
- A. Vikman (Prague, Czech Republic).

http://bs2018.seenet-mtp.info
http://phd.seenet-mtp.info

Followed by Balkan Workshop
http://bw2018.seenet-mtp.info

www.seenet.mtp.info
office@seenet-mtp.info

*To Be Confirmed
Workshop

15th Years of the SEENET-MTP Network

SEENET-MTP WORKSHOP BW2018
Field Theory and the Early Universe
10 - 14 June, 2018, Niš, Serbia

Co-directors
- I. Antoniadis (Institut Gravité)
- E. Combellas (CEA)
- G. Ferro (INFN)
- G. Passaglia (EURATOM)
- A. Bernabeu (European Commission)

Local Organizing Committee
- D. Dimitrijević (Chairman)
- A. Stanimirović
- D. Mihailović
- D. Dedić
- D. Stanković
- M. Stevanović

A Short List of Lecturers
- G. Audi (CEA, France)
- P. Fierro (LPTHE, Paris)
- C. Watkins (London, UK)
- D. Smirnov (Chicago, USA)
- J. Bigi (INFN, Italy)
- A. Barut (Leonardo, Italy)
- S. Fubini (INFN, Italy)
- M. Giorgi (INFN, Italy)
- J. Zupančič (Slovenia, Slovenia)
- A. Neupane (Slovenia, Slovenia)
- T. Furlan (INFN, Italy)
- A. Tarantino (INFN, Italy)
- I. Vujanović (Niš, Serbia)

Special guests and presentations
- L. Einou (CERN)
- A. Llovet (CERN)
- A. Sawicki (CERN)
- T. Van Deursen (CERN)

bw2018.seenet-mtp.info
wseenet-mtp.info
office@seenet-mtp.info

Preceded by the Balkan School BS2018 http://bs2018.seenet-mtp.info
Some References and links:


Some References and links:


We are on the "top" – 15 years!?

- Might be – at the "edge"?
Is that so complicated?!

No! I checked it!

Is it worth it?
Multumim!

- Is it correct, Mihai? 😊
- On behalf of guests from Serbia! 😊
Multumesc! ...