

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

Where the things begin?



Oberwölz Stadt
Österreich

Julius Wess, man



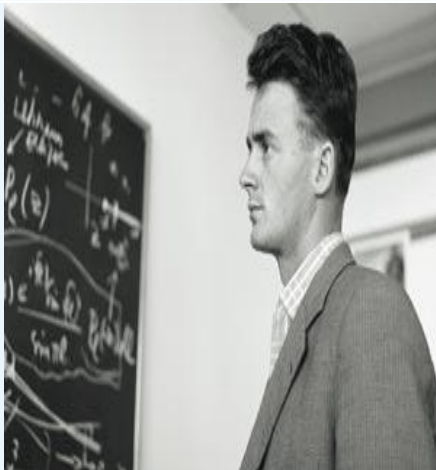
Нишко
породилиште/
Spitalul de maternitate

Дудук



Biergarten Munich

BW2003, Vrnjačka Banja, Srbija



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

Web portal: www.seenet-mtp.info



SEENET-MTP
Southeastern European Network in
Mathematical and Theoretical Physics

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Featured



Prof. Dr. Nevenko Bilic is visiting Serbia
Prof. Dr. Nevenko Bilic (Ruđer Bošković Institute, Zagreb, Croatia) is visiting SEENET-MTP Network Nodes in Nis. During this stay prof. Bilic will give the talk Holographic Cosmology on Friday, November 17th, at 2:00pm at Faculty of Science and Mathematics (room No. 100). This research-exchange program is organized by the SEENET-MTP Network Center, in the framework of the SEENET-MTP ...
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News

Prof. Dr. Nevenko Bilic is visiting Serbia
The SEENET-MTP Office 16.11.2017
Prof. Dr. Nevenko Bilic (Ruđer Bošković Institute, Zagreb, Croatia) is visiting SEENET-MTP Network Nodes in Nis. During this stay prof. Bilic will give the talk Holographic Cosmology on Friday, November 17th, at 2:00pm at Faculty of Science and Mathematics (room No. 100). This research-exchange program is organized by the SEENET-MTP Network Center, in the framework [...]


Prof. Dr. Djordjevic visited Buffalo University
The SEENET-MTP Office 07.11.2017
Prof. Dr. Goran Djordjevic (Faculty of Sciences and Mathematics, University of Nis; executive directory of the SEENET-MTP) visited University of New York at Buffalo (Buffalo, USA), the Partner institution of the SEENET-MTP Network, from October 30th to November 2nd, 2017. During his stay, Prof. Djordjevic gave an invited talk at the Seminar of the Department [...]

Events in the Region

"The Community for Science Education"
The SEENET-MTP Office 23.10.2017
The 2nd Edition of National Conference of "The Community for Science Education" – STEM – partnership for quality (CNCES 2017) will be held on November 3-4, 2017 at National Library of Romania in Bucharest. The ... by Horia Hulubei National ...

News

Prof. Dr. Aurelian Isar is visiting Kragujevac
The SEENET-MTP Office 24.09.2017
Prof. Dr. Aurelian Isar (Department of Theoretical Physics, National Institute of Physics and Nuclear Engineering, Bucharest-Magurele, Romania) and a group of his collaborators and PhD students are visiting SEENET-MTP Network Node in ...

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The SEENET-MTP Network

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- The Executive Director
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PHD Training Program
BECOME SEENET-MTP MEMBER

Latest News

- Prof. Dr. Nevenko Bilic is visiting Serbia
- Prof. Dr. Djordjevic visited Buffalo University
- "The Community for Science Education"

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

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
Baltimor, 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

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

Scientific Advisory Committee*

- ▶ 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



Scientific Advisory Committee

► **Lars BRINK**

Department of Fundamental Physics,
Chalmers University of Technology
Göteborg, Sweden



► **Emilian DUDAS**

CPHT,
Ecole Polytechnique
Palaiseau, France

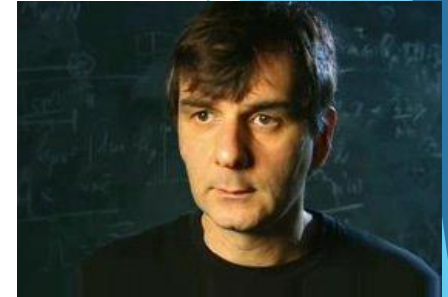


Scientific Advisory Committee

► **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



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



Scientific Advisory Committee

► **Ioannis RIZOS**

Department of Physics,
University of Ioannina
Ioannina, Greece



► **Timo WEIGAND**

Theoretical Physics, CERN
Geneva, Switzerland



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 (Baltimor, 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)
- ▶ ...

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-Planck-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-Planck-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)

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.

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)

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)

SEENET-MTP Office

- ▶ 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 -)



SEENET-MTP Centre

- ▶ 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

Network Meetings (11) in Serbia (2003-2015)

- ▶ **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** – 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)
- ▶ **2017** – 4th 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

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 “Towards the integration of the physics community in CEI countries into the ERA”, 1202.127-14 (2014-2015) with UNESCO, ICTP, EPS, SEENET-MTP
- ▶ UNESCO Project “SEEPEP-South Eastern European Physics and Education Program”, CFS 14-20 N.: 4500239205 (2014)
- ▶ 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 - Research-Training SEENET-MTP Network, No. 875.922.8 (2008-2009)
- ▶ 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

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

Results

- ▶ More than 225 scientific papers in: Particle 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

Other results

- ▶ 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”



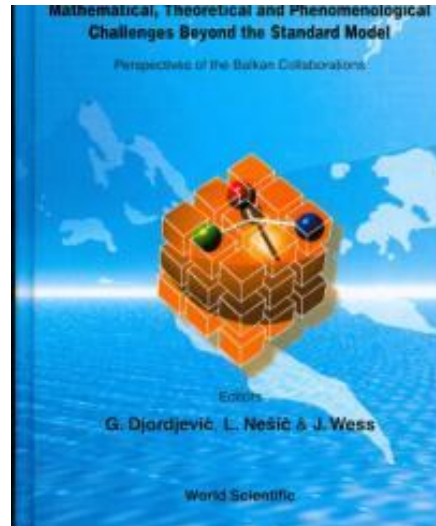
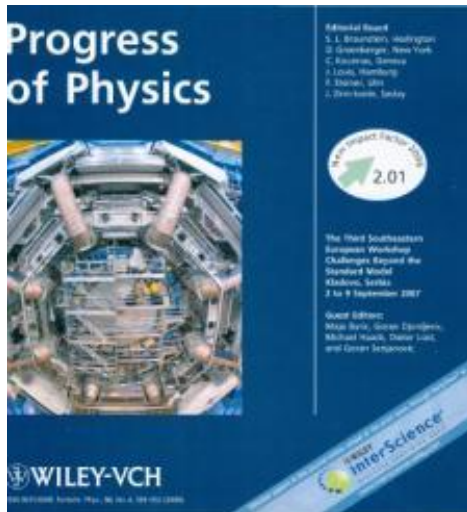
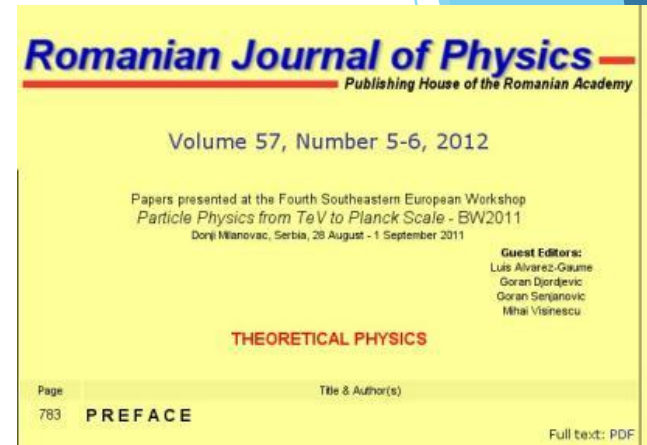
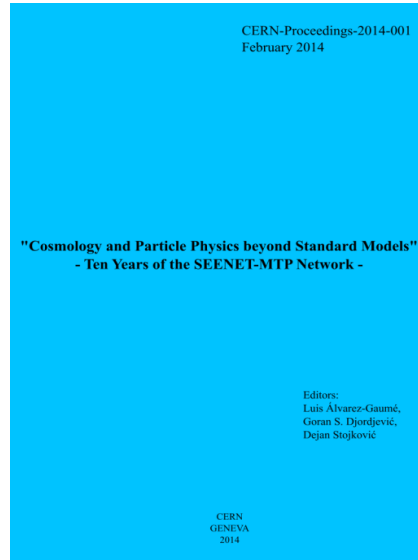
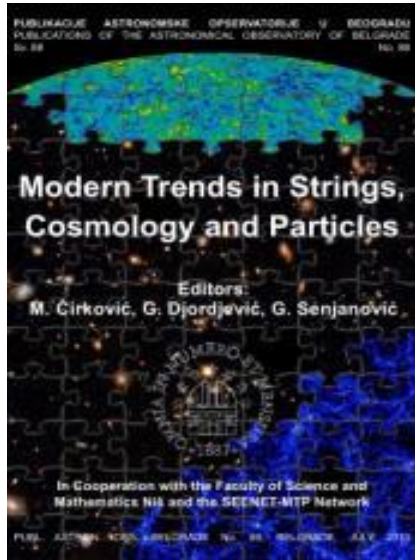
- ▶ **Workshop in Trieste,**
December 11-12th, 2014
“Workshop on Physics Education”



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**

Some of Network's publications



EPS
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SEENET-MTP Network celebrate its 10th year during the BW2013

By Dr. Stefan Bräsecke - Published on 22 March 2013
Event Information March 2013 Berlin, Germany Conference SEENET-MTP

The new edition of the Balkan workshop "Second Standard Model" BW2013 will be held this spring, from 28 to 29 April 2013, at Virginia Surra, Serbia.

The series of Balkan workshops has been a very important part of a project of the [South-eastern European network on Mathematical and Theoretical Physics \(SENET-MTP\)](#). Created in 2003, SENET-MTP was the initiative of the University of Belgrade, and the Faculty of Natural Sciences (University project) "Physics Surface in Solid State" (nowadays "Institute of Physics") from Vienna, Austria from the Ludwig Maximilians University (LMU) of Munich, Germany.

This event also provided an opportunity to mark the 10th anniversary of the SENET-MTP network, which consists of 30 institutions from 11 countries from the western Balkans, SEENET-MTP also had members from Italy and from other EU countries.

A network for the Balkans

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.

From 1945 to 1990, the development of scientific and research institutions in physics in the Balkans followed the political and economic course of the dominant countries: Yugoslavia and the six republics in its federation developed too – to a greater or lesser extent – with both the East and the West, while Romania and Bulgaria became and integrated into the scientific system of the Soviet Union and the Eastern Bloc. In these countries and in the entire Bal-

can Moldavia and the Ukraine – countries on the periphery of the Balkans but in the same geographic orbit. The number and quality of students graduating in physics, as well as financial investment in all forms of scientific educational work, plummeted. The number of researchers and PhD students, in particular, dropped so significantly in the majority of university centres that the critical mass necessary for teaching at graduate level as well as for teamwork and competition was lost. The remaining young research group and students – some only 100 km apart – had no form of communication, exchange or co-operation. European integration – if it began at all – proceeded slowly, while many previously established ties were severed.

West and WIG
The origin of the Southeastern European Network in Mathematical and Theoretical Physics (SEENET-MTP) are linked to Julius Weisend and his two "Wissenschaftler in globaler Verantwortung" (WIGs) – "Scientists in global responsibility" – launched in 1999

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III Past activities - some vintage photos



III Past activities - more recent photos - 2013!



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 ...



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

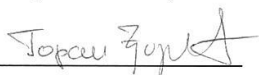
The Parties shall each nominate a technical co-ordinator, who together shall coordinate the overall execution of this Agreement, as well as a safety correspondent who will be responsible for safety matters. Their names and contact details are set out in Annex 1. It is understood that where necessary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

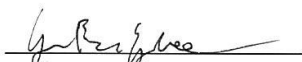
The Southeastern European
Network in Mathematical and
Theoretical Physics
(SEENET-MTP)



Goran Đorđević
Executive Director

on 28/02 2017

The European Organization
for Nuclear Research (CERN)



Gian Giudice
Head of Theoretical Physics
Department

on 06/03 2017

Annex 1: Co-ordinators and safety correspondents

For CERN:

Prof. Gian Giudice, Head of Theoretical Physics Department

For SEENET-MTP:

Prof. Goran Đorđević, 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
“New Trends in High Energy Theory”

► The next seminar/school:

- **High Energy and Particle Physics:
Theory and Phenomenology - BS2018**
June 3 - 9, 2018, Niš, Serbia

CERN - SEENET-MTP PhD Program

- Whishlist -

Topic	Freq.
Mathematical methods in quantum physics	9
Supersymmetry	9
Adv. math. subjects with application in phy.	8
General relativity	8
Particle physics	8
Quantum field theory	8
Supergravity	8
Cosmology	7
Nonlinear dynamics	7
String theory	7
Gravitation	7
Astrophysics and cosmology	5
Hadronic physics	5
Integrable systems	5
Quantum information	5
BSM phenomenology	4
High Energy Physics	4
Inflation	4
Astrophysics	2
Black hole thermodynamics	2
Condensed Matter Physics	2
Mathematical Physics	2
Neutrino Physics	2
Path integrals	2
Black holes	2

Topic	Freq.
Astroparticle physics	1
Batalin-Vilkovisky formalism	1
Collider phenomenology	1
Complex Phenomena in Spatial Plasma Phy.	1
Composite Higgs	1
Computational physics	1
Conformal field theory	1
Dark matter	1
Exotic stars	1
Gauge/gravity duality	1
Higher spin theories	1
Intermittence	1
Lattice QCD	1
Nuclear Physics	1
Observational cosmology	1
QCD	1
Renormalization group in SUSY theories	1
Soft Matter Physics	1
Sterile neutrinos	1
Superstrings	1
Topological field theories	1

IV Ongoing activities

CERN – SEENET-MTP PhD Program

- Students (92 were registered) -

▶ Belgrade

- ▶ Dragoljub Gočanin, *gocanindragoljub@yahoo.com*
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- ▶ Darius Faroughy, *Darius.faroughy@ijs.si*

CERN – SEENET-MTP PhD Program

- Students (92 were registered) -

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 - ▶ Yulia Mutaftchieva NULL
 - ▶ Kalin Marinov NULL
 - ▶ Dimitar Nedanovski NULL
 - ▶ Stanislav Varbev NULL
 - ▶ Aleksander Stefanov NULL
 - ▶ Petar Kokarchev NULL
 - ▶ Tsevetan Vetsov NULL
 - ▶ Stefan Mladenov NULL
 - ▶ Boyan Lazov NULL
 - ▶ Kalin Staykov NULL
 - ▶ Lachezar Simeonov NULL
 - ▶ Kaloyan Zlatanov NULL
 - ▶ Dimitar Popchev NULL
- ▶ **Thessaloniki**
 - ▶ Iosefidis NULL
 - ▶ Kalamakis NULL
 - ▶ Filotheodoros NULL
 - ▶ Aliferis NULL
 - ▶ Jaehoon Jeong NULL
 - ▶ Vasilis Kiosses NULL
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 - ▶ Luka Popov, *lpopov@phy.hr*
 - ▶ Silvije Domazet, *sdomazet@irb.hr*

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

- ▶ V. Naboka, V. Shapoval, V.Sagun, V.Chelnokov, R. Poberezhnyuk, M.Sydorenko, I. Ivanchenko, K. Ershov, O. Sobol, O. Zdorevsky, P. Gavrylenko, A. Shchechkin

▶ Ljubljana

- ▶ Darius Faroughy

▶ Niš

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

▶ Sofia

- ▶ Zhivko Stoyanov, Yulia Mutaftchieva, 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, Anamarija Kirin, Danijel Pikutic, Boris Ivetic, Dijana Tolic, Bruno Klajn, Tajron Juric, Luka Popov, Silvije Domazet

V Problems, needs, perspectives ...

You are on move ... !

Forthcoming Network events

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

<http://bsw2018.seenet-mtp.info/bs2018/>

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

School

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

Codirectors

- L. Antoniadis (Bern/Paris)
- P. Creminelli (ICTP)
- G. Djordjevic (NIS)
- G. Dvali (LMU/MPI)
- A. Morozov (ITEP)
- A. Vilkman (Prague)

Local Organizing Committee

- D. Dimitrijević (co-chairman)
- R. Constantinescu (co-chairman)
- I. J. Nešić
- M. Milošević
- J. Aleksić
- D. Delibašić
- J. Stanković
- M. Stojanović



A Short List of Lecturers

- Ignatios Antoniadis (Paris, France)
- N. Bilic (Zagreb, Hrvatska)
- D. Blas Teunino (Geneva, Switzerland)
- P. Brax (Gif-sur-Yvette, France)
- G. Dvali (Munich, Germany), TBC
- D. Huterer (Univ. of Michigan, USA)
- U. Moschella (Milano, Italy)
- S. Pokorski (Warsaw, Poland)
- I. Puljak (Split, Croatia)
- M. Quirós (Barcelona, Spain)
- I. Rizov (Lamania, Greece)
- S. Sibiryakov (Geneva, Switzerland)
- A. Starobinsky (Moscow, Russia)
- K. Tamvakis (Lamania, Greece)
- V. Vanchurin (Minnesota, USA)
- P. Vanhove (Paris, France)
- A. Vilkman (Prague, Czech Republic)
- Z. Vlah (Geneva, Switzerland)

Special guests and presentations

- L. Baulieu (SISSA)
- D. Lee (EPS)
- E. Tsismelis (CERN)
- R. Voss (EPS)

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



Preceded by the Balkan School BS2018 <http://bs2018.seenet-mtp.info>

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- ▶ 1. R. Constantinescu, G.S. Djordjevic, *Education and Research in the SEENET-MTP Regional Framework for Higher Education in Physics*, AIP Conf. Proc. 1203, 1261 (2010)
<http://dx.doi.org/10.1063/1.3322351>
- ▶ 2. G. Djordjevic, I. Antoniadis, *Balkan Summer Institute 2011 convenes by the blue Danube*, CERN Courier, vol. 51, no. 9 (2011)
- ▶ 3. G. S. Djordjevic, *Noncommutativity and Humanity - Julius Wess and His Legacy*, Int. Journal of Modern Physics: Conference Series **Vol. 13** (2012) p. 66–85
- ▶ 4. L. Moeller, *Julius Wess - a Scientist in Global Responsibility*, Int. Journal of Modern Physics: Conference Series **Vol. 13** (2012) p. 141-148
- ▶ 5. G. Djordjevic, *10 Years of the SEENET-MTP*, e-EPS, June 2013, www.epsnews.eu/2013/06/seenet-mtp/
- ▶ 6. G. Djordjevic, *SEENET-MTP Network celebrate its 10th year during the BW2013*, e-EPS, March 2013, www.epsnews.eu/2013/03/seenet-mtp-10th-year-bw2013/

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- ▶ 7. G.S. Djordjevic, *A network for the Balkans*, CERN Courier, December 2013, pp. 21–23
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- ▶ 9. R. Constantinescu, G. Djordjevic, D. Lee, *Integration of the physics community in CEI countries into the ERA*, e-EPS, July 2014, www.epsnews.eu/2014/07/integration-of-the-physics-community-in-cei-countries-into-the-era/
- ▶ 10. A. Proykova, *International Workshop EPS-CEI-UNESCO*, e-EPS, October 2014
www.epsnews.eu/2014/10/workshop-eps-cei-unesco/
- ▶ 11. D. Lee, *Workshop on physics education at ICTP, Trieste*, e-EPS, March 2015,
www.epsnews.eu/2015/03/report-on-the-workshop-on-physics-education/
- ▶ 12. http://www.unesco.org/new/fileadmin/MULTIMEDIA/FIELD/Venice/pdf/news/SEE-Networks_note.pdf

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! ...

