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# SEENET-MTP BALKAN SCHOOL and WORKSHOP 2018 BSW2018

**15 YEARS OF THE SEENET-MTP NETWORK**

3-14 June 2018, Niš, Serbia

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## FIRST ANNOUNCEMENT

### GENERAL INFORMATION

The SEENET-MTP Centre, the Faculty of Sciences and Mathematics, University of Niš, Serbia and the Faculty of Mathematics and Natural Sciences, University of Craiova, Romania, in cooperation with CERN TD, the ICTP and other partners and sponsors are organizing the **SEENET-MTP Balkan School and Workshop BSW2018**.

The BSW2018 is a resumption of a series of Workshops and Schools initiated by the BW2003 Workshop.

### **The School**

The School entitled "**High Energy and Particle Physics: Theory and Phenomenology**" (BS2018, 3-10 June 2018) represents a continuation of the previous 4 schools of the first cycle of the running CERN – SEENET-MTP Program for PhD students and young scientists. The BS2018 will complete the first cycle of the Program.

Preliminary list of lecturers and topics:

- **Paolo Creminelli** (ICTP Trieste)  
Topic: Cosmology and Inflation
- **Emilian Dudas** (CPHT Paris)  
Topic: String Phenomenology
- **Gia Dvali** (LMU-MPI Munich/NYU New York)  
Topic: Beyond the Standard Model
- **Kyriakos Papadodimas** (CERN), *TBC*  
Topic: AdS/CFT correspondence
- **Sergey Sibiryakov** (CERN)  
Topic: Gravity / Astroparticle Physics
- **Giovanni Villadoro** (ICTP Trieste),  
Topic: Selected Topics in the Standard Model, *TBC*

The event is intended primarily for PhD students in High Energy Physics and Cosmology. The School is designed for about 50 to 60 students.

The lecturers will give 3-4 lectures each, with a gradual build-up towards advanced level subjects. The lectures will be complemented by exercise sessions and discussions.

More detailed information, as well as the School lecture notes and materials, will be provided later. Updates will be posted regularly on the school web page: <http://bsw2018.seenet-mtp.info/bs2018/>. Students are invited to visit the website and register. **Registration will be open until March 31, 2018.**

## **The Workshop**

The scientific part of the Workshop entitled "**Field Theory and the Early Universe**" (BW2018, 10-14 June 2018) will include recent developments in Beyond the Standard Cosmological Model(s) (BSCM). This will be an excellent opportunity to gather the leading experts in these areas of physics, as well as young researchers from the South-East, Central and Eastern Europe, the EU and worldwide, to discuss open problems and perspectives in the main scientific areas of the Workshop. The educational and organizational part will include a discussion which should lead us to "Beyond the Standard Model(s)" in regional and inter-regional cooperation in Science and Education. A series of round tables will be organized, with a few invited lecturers and moderators from the CEI, UNESCO, the European Physical Society (EPS), the Balkan Physical Union (BPU), CERN and the ICTP. The round-table discussions will be focused on actions of promoting and strengthening research, education and capacity-building in physics, as well as other natural sciences, with an emphasis on South Eastern Europe, but in a European and worldwide framework.

The BSW2018 will be the main event in the SEENET-MTP Network ([www.seenet-mtp.info](http://www.seenet-mtp.info)) program in 2018, along with the celebration of marking the 15 years of the SEENET-MTP Network.

### **CODIRECTORS**

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

### **LOCAL ORGANIZING COMMITTEE**

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

### **WORKSHOP PRESENTATIONS AND PUBLICATIONS**

The Workshop invited talks are expected to last up to 30 minutes. There will be possibilities for special sessions, round tables and one poster session.

The Book of Extended Abstracts of the Workshop – Short Communications will be prepared prior to the event. Extended abstracts should be sent no later than April 10, 2018. Selected papers from the Workshop will subsequently be published elsewhere. **More details will be provided in the second announcement.**

### **PARTICIPANTS**

Aside from the Workshop invited lecturers and active researchers worldwide, the organizers would like to encourage and support an active participation of young researchers and advanced students from the Balkan and Central European countries and neighbouring regions. The organizers will cover the local expenses for a number of participants. Living and a part of the travel expenses will be covered for a limited number of students and young researchers, in accordance with the sponsor's rules and funds available.

### **SOCIAL EVENTS**

Several social events are planned; further details will be given in 2<sup>nd</sup> Announcement.

### **REGISTRATION & REGISTRATION FEE**

The Registration forms can be found at events' websites. The deadline for early registration and application for some financial support is March 31, 2018. The **registration fee** for the School is 120 EURO, and the **registration fee** for the Workshop participants is 120 EURO for payments made up to March 31, 2018. For later payments the fee is 150 EURO (75 EURO for students and accompanying persons participating in the Workshop). SEENET-MTP members (<http://www.seenet-mtp.info/members/>) will receive a special 20% discount. Detailed instructions can be found at the Workshop web page.

### **ACCOMMODATION AND TRAVEL INFORMATION**

Details will be given in 2<sup>nd</sup> announcement. More information on how to reach Niš can be found at: <http://bsw2018.seenet-mtp.info/bw2018/travel-information/> or <http://bsw2018.seenet-mtp.info/bs2018/portfolio/travel-information/>

**Preliminary**  
**list of**  
**SPONSORS:**

- Central European Initiative (CEI), Trieste
- CERN
- European Physical Society (EPS)
- Faculty of Mathematics and Science Niš
- ICTP
- Serbian Ministry of Education, Science and Technological Development

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