

Second MC meeting hosted by

# "THE STRING THEORY UNIVERSE"

20<sup>TH</sup> EUROPEAN WORKSHOP ON STRING THEORY  
AND 2<sup>ND</sup> COST MP1210 WORKSHOP

September 22-26, 2014



# 3. Update

- News from COST and H2020
- Status of the Action, including participating and new COST and non-COST countries
- Report on Grant Period 1 (2013/14)
- Budget plan Grant Period 2 (2014/15)

# Change of COST officer

Former COST Officer and MPNS DC: **Caroline Whelan**

New COST Officer of our Action:

**Fatima Bouchama**



New MPNS DC responsible:

**Maria Moragues Canovas**

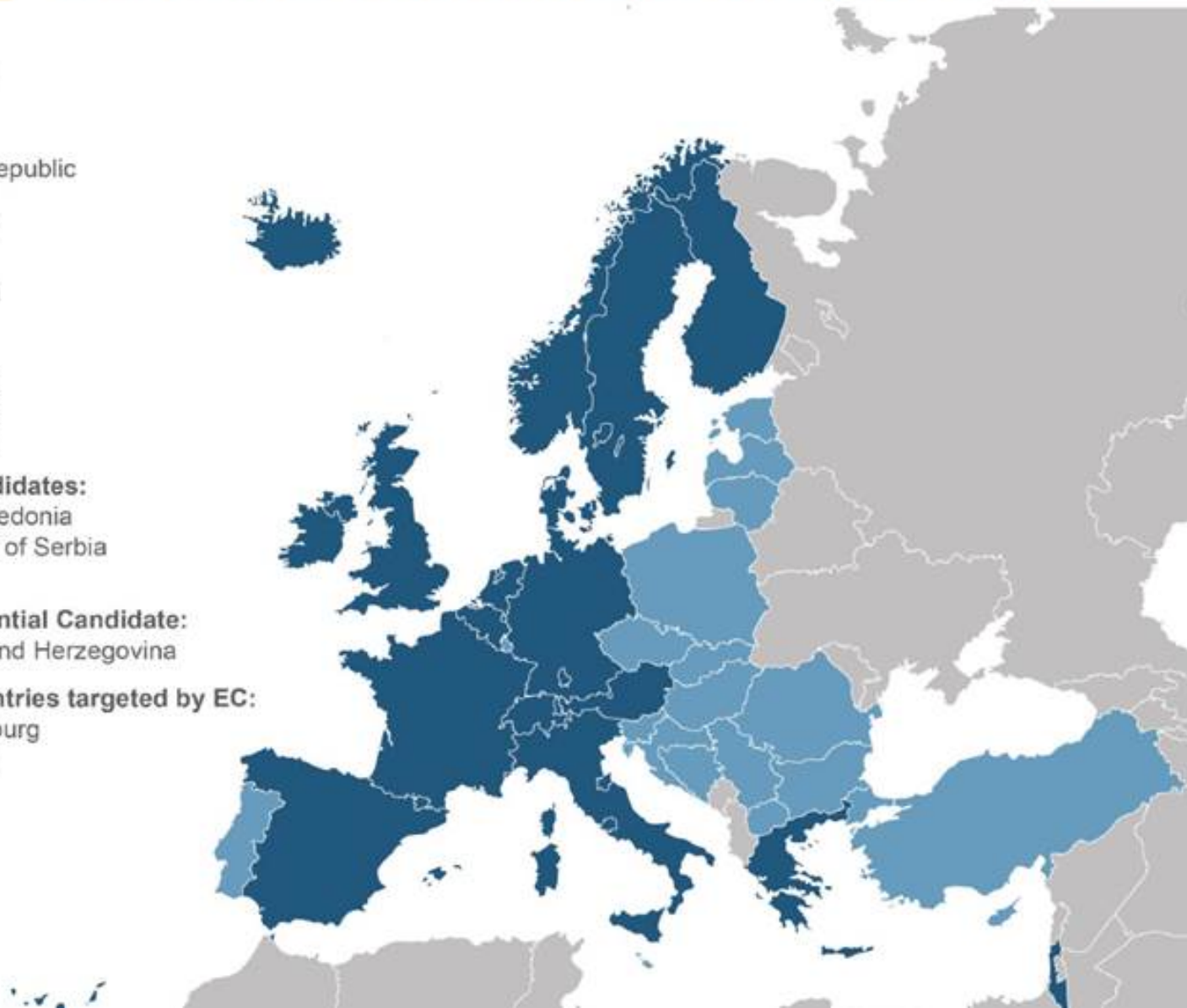


## COST under H2020

- By September, 30 the old COST rules end and every scientific duty cancelled (no more rapporteurs, DC members, etc..). Middle of October the CSO will start discussing the new rules.
- The budget has been increased to 300 millions in 7y
- New key word: Inclusiveness Countries

# COST Inclusiveness countries

- **EU 13:**
  - Bulgaria
  - Croatia
  - Cyprus
  - Czech Republic
  - Estonia
  - Hungary
  - Latvia
  - Lithuania
  - Malta
  - Poland
  - Romania
  - Slovakia
  - Slovenia
- EU Candidates:**
  - FYR Macedonia
  - Republic of Serbia
  - Turkey
- EU Potential Candidate:**
  - Bosnia and Herzegovina
- EU Countries targeted by EC:**
  - Luxembourg
  - Portugal



# Status of the Action



## 21 COST Countries

**Austria**, Belgium, Bulgaria, Denmark, France, Germany, Greece, Hungary, **Iceland**, **Ireland**, Israel, Italy, Malta, Portugal, Slovenia, Spain, Sweden, Switzerland, **Turkey**, The Netherlands, United Kingdom

+ CERN

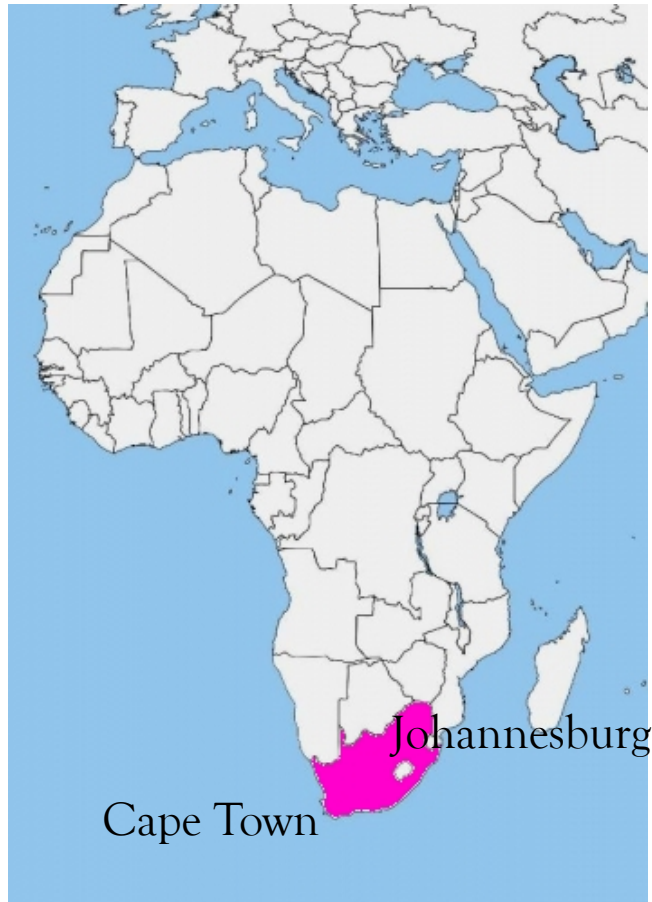
6

# MC members

<i>Name</i>	<i>Country</i>	<i>E-mail</i>
Dr Johanna Knapp	<b>Austria</b>	knapp@hep.itp.tuwien.ac.at
Prof Daniel Grumiller	<b>Austria</b>	grumil@hep.itp.tuwien.ac.at
Dr Riccardo ARGURIO	<b>Belgium</b>	rargurio@ulb.ac.be
Prof Alexandre SEVRIN	<b>Belgium</b>	Alexandre.Sevrin@vub.ac.be
Prof Antoine Van PROEYEN	<b>Belgium</b>	antoine.vanproeyen@fys.kuleuven.be
Prof Svetlana PACHEVA	<b>Bulgaria</b>	svetlana@inrne.bas.bg
Prof Vladimir DOBREV	<b>Bulgaria</b>	dobrev@inrne.bas.bg
Prof Stoytcho YAZADJIEV	<b>Bulgaria</b>	yazad@phys.uni-sofia.bg
Dr. Lilia ANGUELOVA	<b>Bulgaria</b>	anguelova@inrne.bas.bg
Prof Charlotte KRISTJANSEN	<b>Denmark</b>	kristjan@nbi.dk
Prof Niels OBERS	<b>Denmark</b>	obers@nbi.dk
Prof Troels HARMARK	<b>Denmark</b>	harmark@nbi.dk
Prof Michela PETRINI	<b>France</b>	potrini@lpthe.jussieu.fr
Prof Henning SAMTLEBEN	<b>France</b>	henning.samtleben@ens-lyon.fr
Prof Gabriele HONECKER	<b>Germany</b>	Gabriele.Honecker@uni-mainz.de
Dr Johanna ERDMENGER	<b>Germany</b>	jke@mppmu.mpg.de
Dr Stefan GROOT NIBBELINK	<b>Germany</b>	groot.nibbelink@physik.uni-muenchen.de
Prof Marco ZAGERMANN	<b>Germany</b>	Marco.Zagermann@itp.uni-hannover.de
Prof Anastasios PETKOU	<b>Greece</b>	tpetkou@gmail.com
Prof Elias KIRITSIS	<b>Greece</b>	kiritsis@physics.uoc.gr
Prof Ioannis BAKAS	<b>Greece</b>	bakas@mail.ntua.gr
Prof Panagiota KANTI	<b>Greece</b>	pkanti@cc.uoi.gr
Dr Annamaria SINKOVICS	<b>Hungary</b>	sinkovics@general.elte.hu
Dr Peter BANTAY	<b>Hungary</b>	bantay@general.elte.hu
Prof Larus THORLACIUS	<b>Iceland</b>	lth@hi.is
Dr Valentina GIANGRECO MAROTTA PULETTI	<b>Iceland</b>	vgmp@hi.is
Prof Tristan MCLOUGHLIN	<b>Ireland</b>	tristan@maths.tcd.ie
Prof Eliezer RABINOVICI	<b>Israel</b>	eliezer@vms.huji.ac.il
Prof Micha BERKOOZ	<b>Israel</b>	micha.berkooz@weizmann.ac.il
Prof Oren BERGMAN	<b>Israel</b>	bergman@physics.technion.ac.il
Prof Ofer AHARONY	<b>Israel</b>	Ofer.Aharony@weizmann.ac.il

Dr Zohar KOMARGODSKI	<b>Israel</b>	zkomargo@weizmann.ac.il
Dr Anna CERESOLE	<b>Italy</b>	ceresole@to.infn.it
Prof Matteo BERTOLINI	<b>Italy</b>	bertmat@sissa.it
Dr Ivan DEBONO	<b>Malta</b>	mail@idebono.eu
Prof Ana ACHUCARRO	<b>Netherlands</b>	achucar@lorentz.leidenuniv.nl
Prof Stefan VANDOREN	<b>Netherlands</b>	S.J.G.Vandoren@uu.nl
Prof Jan DE BOER	<b>Netherlands</b>	J.deBoer@uva.nl
Prof Gabriel LOPES CARDOSO	<b>Portugal</b>	gcardoso@math.ist.utl.pt
Prof Miguel COSTA	<b>Portugal</b>	miguelc@fc.up.pt
Prof Martin OLOUHLIN	<b>Slovenia</b>	martin.oloughlin@ung.si
Prof Roberto EMPARAN	<b>Spain</b>	emparan@ub.edu
Prof Yolanda LOZANO	<b>Spain</b>	yozanouniovi@gmail.com
Dr Angel URANGA	<b>Spain</b>	angel.uranga@uam.es
Prof Maria A. LLEDO	<b>Spain</b>	maria.lledo@ific.uv.es
Dr Lisa FREYHULT	<b>Sweden</b>	lisa.freyhult@physics.uu.se
Prof Joseph MINAHAN	<b>Sweden</b>	joseph.minahan@physics.uu.se
Dr Marcus BERG	<b>Sweden</b>	marcus.berg@kau.se
Prof Matthias GABERDIEL	<b>Switzerland</b>	gaberdiel@itp.phys.ethz.ch
Prof Matthias BLAU	<b>Switzerland</b>	blau@itp.unibe.ch
Dr Dieter VAN DEN BLEEKEN	<b>Turkey</b>	dieter.van@boun.edu.tr
Prof Nihat Sadik DEGER	<b>Turkey</b>	sadik.deger@boun.edu.tr
Prof Jerome GAUNTLETT	<b>United Kingdom</b>	j.gauntlett@imperial.ac.uk
Prof Ruth GREGORY	<b>United Kingdom</b>	r.a.w.gregory@durham.ac.uk

# Non-COST Countries



Cape Town: Jeff Murugan,  
Amanda Weltman

Johannesburg: Roberto De Mello Koch,  
Kevin Goldstein,  
Vishnu Jejalla,  
Joao Rodrigues





Stanford: Renata Kallosh and her group



Santiago: Max Banados, Gonzalo Palma

CECS: Jorge Zanelli

Buenos Aires: Gaston Giribet, Matias Leoni

Under SO validation: University of Antofagasta (A. Restuccia, M. Pilar Garcia del Moral ,  
A. Sotomayor)

Under finalization: University of Seoul and Center for Theoretical Physics of the Universe  
(Soo-Jong Rey and his group)

**528 members, 14% women, 47% ESR**

## Other COST Countries in the process of joining

**Romania:** Elena-Mirela Babalic, Dumitru Gilencea

10

# Deliverables

Year 1	Year 2	Year 3	Year 4
WGs reports Annual Report Gender activities Outreach activities Job Opp. activities Scient. publications	WGs reports Annual Report Gender activities Outreach activities Job Opp. activities Scient. publications	WGs reports Annual Report Gender activities Outreach activities Job Opp. activities Scient. publications	WGs reports Annual Report Gender activities Outreach activities Job Opp. activities Scient. publications
Website operational	Training School 1	Scientific Strategic Meeting	Training School 2
Workshop1	Workshop 2	Workshop 3	Final Conference

# Report on Grant Period 1 (March 4, 2013 - June 1, 2014)

<b>A. COST Networking Tools</b>	EUR
(1) MEETINGS	75.860,00
(1) TRAINING SCHOOLS	0,00
(1) SHORT-TERM SCIENTIFIC MISSIONS	32.980,00
(1) DISSEMINATION	0,00
(1) OERSA	0,00
<b>A. TOTAL SCIENCE EXPENDITURE (sum of (1) to (5))</b> AUTOMATIC SUM: Click in cell to the right and click button "F9" to update the autosum	<b>108.840</b>
<b>A. FSAC (max. of 15% of B in the initial Work and Budget Plan – 107.000€)</b>	16.000
<b>A. TOTAL EXPENDITURE (B+C)</b> AUTOMATIC SUM: Click in cell to the right and click button "F9" to update the autosum	<b>124.840</b>

12

### Meetings

<u>Meeting Type</u>	<u>Date</u>	<u>Place</u>			<u>Cost</u>	<u>Total</u>
<i>Workshop, Management Committee and Working Group Joint Meeting</i>	<u>September</u> 2-6, 2013	Bern (CH)			27.336,04	<b>27.336,04</b>
<i>Disseminatio n Meeting</i>	<u>September</u> 16-19, 2013	Trieste (IT)			1.014,93	<b>1.014,93</b>
<i>Job Opportunity Meeting</i>	<u>December</u> 17-18, 2013	<u>Leuven</u> (BE)			2.660,00	<b>2.660,00</b>
<i>Core Group and Working Group Joint Meeting</i>	<u>January</u> 6- 10, 2014	<u>Rehovot</u> (IS)			31.522,33	<b>31.522,33</b>
<i>Working Group Meeting</i>	March 10- 14, 2014	Cambridge (UK)			11.327,41	<b>11.327,41</b>
						<b>73.860,71</b>

### Workshops

<u>Title</u>	<u>Date</u>	<u>Place</u>			<u>Cost</u>	<u>Total</u>
Iberian Strings 2014	January 29- 31, 2014	Palencia (ES)			2.000,00	<b>2.000,00</b>
						<b>2.000,00</b>

# 13

Financial & Scientific Administration and Coordination 16,000 euro  
used to hire

Federica Crespi



## Budget Plan Grant Period 2 (June 2, 2014 - June 1, 2015)

<b>A. COST Networking Tools</b>	EUR
(1) MEETINGS	62.250,00
(2) TRAINING SCHOOLS	32.000,00
(3) SHORT-TERM SCIENTIFIC MISSIONS	28.700,00
(4) DISSEMINATION	250,00
(5) OERSA	200,00
<b>B. TOTAL SCIENCE EXPENDITURE (sum of (1) to (5))</b> AUTOMATIC SUM: Click in cell to the right and click button "F9" to update the <u>autosum</u>	<b>123.400</b>
<b>C. FSAC (max. of 15% of B.) (13.5% of B)</b>	16.600
<b>D. TOTAL EXPENDITURE (B+C)</b> AUTOMATIC SUM: Click in cell to the right and click button "F9" to update the <u>autosum</u>	<b>140.000</b>

## Proposed Revision

<b>A. COST Networking Tools</b>	EUR	EUR
(1) MEETINGS	62.250,00	60.590,00
(2) TRAINING SCHOOLS	32.000,00	32.000,00
(3) SHORT-TERM SCIENTIFIC MISSIONS	28.700,00	28.700,00
(4) DISSEMINATION	250,00	250,00
(5) OERSA	200,00	200,00
<b>B. TOTAL SCIENCE EXPENDITURE (sum of (1) to (5))</b> AUTOMATIC SUM: Click in cell to the right and click button "F9" to update the <u>autosum</u>	<b>123.400</b>	<b>121.740</b>
<b>C. FSAC (max. of 15% of B.) (13.5% of B)</b>	16.600	18.260
<b>D. TOTAL EXPENDITURE (B+C)</b> AUTOMATIC SUM: Click in cell to the right and click button "F9" to update the <u>autosum</u>	<b>140.000</b>	<b>140.000</b>

16



# 4. Progress report of WGs

## Grant Period 1

WG1/WG3: “BLACK HOLES AND QUANTUM INFORMATION”  
Weizman Institute, Rehovot, 12-17 January, 2014

WG2: “SUPERSYMMETRY BREAKING IN STRING THEORY”  
Cambridge (UK), 10-14 March, 2014

## Grant Period 2

### **WG1 activity/First Training School**

“String Theory and Holography”, Lisbon, July 14-18, 2014.

“Mathematica Summer School on Theoretical Physics: Selected Topics in Holography”,  
Porto, July 21-26, 2014.

Organizers: Gabriel Lopez Cardoso, Miguel Costa.

Budget: 32 KE

### **WG1/ WG3 (partially) activity/Conference “Holographic Methods for Strongly Coupled Systems”**, GGI, 13-17 April 2015.

Organizers: F. Bigazzi, A. Cotrone, N. Evans, E. Kiritsis, H. Liu, C. Nunez, K. Skenderis.

Budget: 2 KE

### **WG1/WG3 activity: “Holographic Renormalization Group and Entanglement”**, Paris 7, January 28-30, 2015.

Organizers: N. Halmagyi, F. Nitti, G. Policastro.

Budget: 7 KE

### **WG2 activity: “Physics and Geometry of F-theory”**, Max Planck, Munich, February 23-26, 2015.

Organizers: T. Grimm, I. Garcia Etxebarria, T. Pugh.

Budget: 4.5 KE

18

## Composition of WG core groups

**WG1:** Ofer Aharony, Charlotte Kristjansen, Jerome Gauntlett

**WG2:** Matteo Bertolini, Marcus Berg, Gabriele Honecker, Sakura Schafer-Nameki, Riccardo Argurio

**WG3:** Gianguido Dall'Agata, Gabriel Lopes Cardoso, Iosif Bena, Veronika Hubeny

**WG4:** Ruth Gregory, Dieter Luest

**WG5:** Anna Ceresole, Yolanda Lozano, Carlos Nunez, Silvia Penati

19

# 5. STSM

Report by Anna Ceresole (WG4 leader and STSM responsible)

20

# 6. Gender Activities

Report by Marian Lledo' (WG5 leader)

21

# 7. Activities for ESR and surveys

Report by Gabriele Honecker (ESR responsible)

22

# 8. Joint postdoc selection procedure

Report by Antoine Van Proeyen (BE MC member and meeting organizer)

23

# 9. Future activities

NEXT...

"THE STRING THEORY UNIVERSE"  
21<sup>TH</sup> EUROPEAN WORKSHOP ON STRING THEORY  
AND 3<sup>ST</sup> COST MP1210 MEETING

LEUVEN, 7-11 SEPTEMBER 2015

MC approved on 4/9/2013

24



## WGs activities for Grant Period 3 (June 2, 2015 – June1, 2016)

- 1) **WG1:** "Challenges for AdS/CFT in higher dimensions: a workshop", at the Technion in Haifa, proposed by Oren Bergman and Amos Yarom.
- 2) **WG2:** "School and a Workshop: Bringing together String Theory, Particle Physics and Cosmology", at GGI-Florence, proposed by Riccardo Argurio, Marcus Berg, Matteo Bertolini, Gabriele Honecker, Enrico Pajer, Diederik Roest, Sakura Schafer-Nameki.
- 3) **WG5:** "First Workshop on string theory and gender", Valencia, proposed by WG5.

WG5 event: 5 KE

WG1 event: 1/3 of remaining budget (roughly 12KE, based on this year's budget)

WG2 event: 2/3 of remaining budget (roughly 25KE)

MC approved on 8/9/2014

NEXT TO NEXT...

- Scientific Strategic Meeting (year 2015/2016) → Discussion and CALL
- Second Training School (year 2016/2017) → CALL
- Final Conference (year 2016/2017) → CALL

26

# 10. Website

(WIS, Micha Berkooz)

<http://wvs.weizmann.ac.il/stringuniverse/>

- PhD advertisement page
- Creation of a scientific forum for ESR and students
- General improvements

27

## Date and location of

- 1) the next MC meeting (Leuven 2015 ?)
- 2) the next CG meeting (GGI, April 2015 ?)

Comments, suggestions, criticisms ??

28