

RBI-T-WINNING – Ruđer Bošković Institute: Twinning for a step forward of the Theoretical Physics Division



GA No: 692194

Start Date of Project: 01 February 2016

Duration: 36 months

WP2	Strengthening the research capabilities
Task 2.1	Joint organization of events aimed at improving our research skills.
Task 2.2	Supporting and promoting collaborations (visits on both sides).
Deliverable 2.6	Third report on activities of Task 2.1 and Task 2.2
Due month	36

Description:

This deliverable reports on the progress made in relation to the objectives of work package 2, in particular those connected to Task 2.1 (Joint organization of events aimed at improving our research skills) and Task 2.2. (Supporting and Promoting Collaborations (visits on both sides)).

Task 2.1 Joint organization of events aimed at improving our research skills

Here we report on 3 conferences and 4 workshops which took place since the last report.

All of the events, with the exception of the workshop ‘Getting to grips with the strong force’ (04 - 06 April 2018, Paris, France), were organised in Croatia. Four of these events (3 conferences and 1 workshop) were foreseen by the GA and three new workshops were added later. We start with the foreseen events.

Subtask 2.1.2: Workshop “Getting to Grips with QCD - Summer Edition”, 18 - 22 September 2018, Primošten, Croatia.

Organization: Kornelija Passek-Kumerički, Goran Duplančić (RBI), Samuel Wallon, Damir Bečirević, Sebastien Descotes-Genon (LPT Orsay), Krešimir Kumerički (University of Zagreb), Hervé Moutarde (IRFI, CEA), Lech Szymanowski (NBCJ, Warsaw).

Website: <https://indico.cern.ch/event/736768/>

Due to the overlap with other events the finally chosen dates for this workshop were 18-22 September 2018, instead of 27 - 31 August 2018 as foreseen in D 2.4



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The success of the workshop Getting to Grips with QCD, Paris, 4-6 April 2018 (added event supported by RBI-T-WINNING project described at the end of this deliverable) led the organizers to envisage this workshop as a continuation of in Paris started discussions relevant to recent progress in QCD phenomenology but with topics relevant for the networks researchers chosen to be investigated in more depth. A form of a smaller, work and discussion oriented workshop has been chosen. A specific attention was payed to ensure the participation of experimental researchers presenting recent results and future possibilities and to thus enable direct communication between theory and experiment.

The workshop focused on two main directions. First, on the investigations of the hadron structure, in particular, deeply virtual and wide-angle exclusive processes, semi-inclusive and inclusive processes with baryons described in terms of various parton distributions functions (PDFs): generalized PDFs, transverse momentum dependent PDFs, and exclusive processes with mesons described in terms of the distributions amplitudes. And second, the role of QCD in flavour physics.

Concerning the first research topic, the experimental overviews were given of current collaborations (COMPASS at CERN, Hall A and CLAS at Jefferson Laboratory), as well as, future facilities (Electron Ion Collider, USA). The leading theoreticians of the field gave talks on theory status, results, open problems and directions to be followed, as well as, discussed current hot-issues (like proton pressure from DVCS measurements). The second topic, concentrated on flavour physics where recent anomalies found in the CERN Large Hadron Collider's data are pointing towards the new physics. QCD plays an important role here, as definite conclusion requires precise calculation of the form-factors of various mesons as well as CKM parameters entering the matrix elements.

There were in total 26 talks and lots of discussions that brought together theorists and experimentalists working on these topics in order to grasp the current situation and to facilitate the connection between different research directions. This form of workshop has proven to be very efficient for making needed connections and solving open problems in the field. It was later adopted also for a workshop organized in Warsaw (Jan 2019) by few "Grips" participants, and which also researchers from Croatia attended and presented recent results. Moreover, the workshop provided RBI researchers with the opportunity to work, make new collaborations and joint projects with experts in the field.

The workshop was attended by 29 participants (from 10 countries; 2+1 participant from Croatia) The partner institutions were represented by 3 participants from LPT Orsay, 1 participant from SISSA.



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The workshop was held at the hotel Zora, in Primošten, a nice small coastal town between Split (50 km) and Zadar (100 km). Among the social activities, on Thursday (20.09) bus excursion was organised to the National Park Krka followed by the workshop dinner in Dalmatinsko Selo (Solaris, Šibenik).

Subtask 2.1.3: Conference “Cosmology 2018 in Dubrovnik”, 22 - 27 October 2018, Dubrovnik, Croatia.

Organization: Oleg Antipin (RBI), Fabrizio Nesti (L’Aquila), Paolo Salucci (SISSA).

Website: <https://indico.cern.ch/event/736594/overview> and facebook page: <https://www.facebook.com/cosmology2018indubrovnik>

This conference brought together researchers working in the observational and theoretical sides of cosmology, astrophysics and astroparticle physics aiming to discuss the current situation as well as prospects for the future improvements. The topics discussed included 1) Dark matter (Theory, Observations, Detection), 2) Structures in the Universe, 3) New observational probes of the Universe, 4) Multi-messenger cosmology (Gravitational waves, Cosmic rays, Neutrinos), 5) Unknown physics in the Universe.

The conference was attended by 71 participants (7 from the nodes) and 31 invited talks from leading scientists as well as many contributed ones from participants were presented. The conference took place in a conducive atmosphere, appropriate for the dramatic paradigm shift in cosmology that we may be witnessing in these days. 20 of the participants were young scientists (PhD students or young postdocs) and poster session for them was organised just outside of the conference hall for the duration of the conference.

The event was held at the hotel Kompas situated in the picturesque Lapad Bay beachfront less than 4 km from the Old Town city centre. Lunches were organized in the same hotel with an extra free time before the afternoon session set up with the idea to have a friendly physics discussions and opportunity to enjoy the Bay area. Conference dinner and city tour were organised in the old town of Dubrovnik in the middle of the conference and, in addition, a reception banquet was held at the conference venue in the evening of the opening day.

Subtask 2.1.4: Conference “Game of Materials”, 30 October - 2 November 2018, Dubrovnik, Croatia.

Organization: Predrag Lazić (RBI, Zagreb), Željko Crljen (RBI, Zagreb), Ivor Lončarić (RBI, Zagreb), and Stefano de Gironcoli (SISSA, Trieste).



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Website: <https://gom.irb.hr/>.

The scope of the conference was broad and it covered topics from materials science and surface physics. In particular the topic sessions were organized with three 35 minutes lectures within a session: High throughput search for novel materials, Molecules on surfaces, Magnetism, Theoretical developments, Transport, 2D materials, Bio and Complex Materials, Catalysis and Machine learning. Special final session was organized from the submitted abstracts where the organizers selected the 3 best contributions. All the other lectures were given by the invited speakers which were all world known experts in their field of research. Poster session was organized on the second day of the conference. In total the conference was attended by 55 persons.

Due to such a broad topic coverage of the conference the invited speakers were instructed to prepare a talk that is appropriate for the broader audience and in particular targeted for the researchers at the earlier stage of their career (under-graduate students and postdocs) in order to present possible directions to steer their career into. All talks successfully followed that guideline. Prof. Stefaan Cottenier from Ghent University even recorded his talk for future use as a lecture - upload of youtube video on the following link: <https://www.youtube.com/watch?v=m2pjByQ1-3E>.

Lunches were organized in the same hotel which was convenient and made possible for shorter pause between morning and afternoon sections. Moreover during the lunch many fruitful discussions were taking place among the participants of the conference. Conference also included a conference dinner which was organized in the old town of Dubrovnik as well as a city tour on the last day of the conference.

The organizers asked participants for the opinion on the conference upon their return home. We have received several emails which all spoke very positively about the conference. In fact the idea of the conference has shown a great potential to become a series of conferences which would be held every two years.

For the Croatian members of the organizing committee this was the first experience of organising a conference of such a large scope. In that respect it was a valuable experience for the members of the RBI. Moreover the conference made the DTP much more visible on the world scope of materials science research.

Also many participants including the DTP members discussed opportunities to apply for joint projects in the future due to the complementary nature of their expertise which shows that conference perfectly fulfilled one of its major goals of bringing together world renowned experts in different aspects of materials science.



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Subtask 2.1.6: Conference on Symmetries, Geometry and Quantum Gravity 18 - 22 June 2018, Primošten, Croatia.

Organization: Athanasios Chatzistavrakidis (RBI), Clay James Grewcoe (RBI), Tajron Jurić (RBI), Danijel Jurman (RBI), Anđelo Samsarov (RBI).

Scientific Advisory Board: Eric A. Bergshoeff (VSI, Groningen University), Lorian Bonora (SISSA), Maro Cvitan (University of Zagreb), Larisa Jonke (RBI), Olaf Lechtenfeld (Leibniz University Hannover), Dieter Lüst (LMU), Jean-Christophe Wallet (LPT).

Website: <http://thphys.irb.hr/SGQG2018/>.

The reason behind the organization of the meeting was the following: Recent advances in understanding of the geometry and symmetries of space-time as seen by fields and strings include important results on various aspects of string theory dualities, non-commutative and non-associative geometry, and matrix models. The conference aimed at bringing together leading experts in the field in order to foster communication between researchers working on different facets of the problems and to develop new insights into quantum theory of gravity. Topics covered included noncommutative and nonassociative spacetime structures, algebroid structures in field and string theories, matrix models, emergent gravity and emergent spacetime, holography and black holes, applications to gravity and cosmology.

There were 18 invited speakers (4 from nodes) and 15 contributions from younger colleagues (5 from nodes). The conference was attended by 47 participants out of whom there were 10 students and 8 postdocs (6+5 from nodes).

The main goals of the event were:

- Support and encourage communication between experienced researchers in theoretical and mathematical physics in order to develop new insights into deep central questions in theoretical physics.
- Promote and support top young talent in the field with provisions for them to establish themselves in the relevant fields.
- Increase visibility and impact of the Quantum Gravity and Mathematical Physics Group at DTP.
- The presentation slides stored in an open-access digital repository.



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3 new workshops have been added to the grant agreement which we describe here in some detail.

1. Workshop “On a safe road to quantum gravity with matter”, 11 - 14 September 2018, island Hvar, Croatia.

Organization: Oleg Antipin (RBI), Roberto Percacci (SISSA), Dario Benedetti (LPT), Francesco Sannino (CP3-Origins, Denmark).

Website: <https://hvar2018.irb.hr>.

In the previous report this workshop was tentatively titled “Adriatic meeting on Asymptotic safety” and was scheduled to take place in October 2018, Dubrovnik. Eventually, it took place in September on island Hvar and was also partially supported by Croatian Science Foundation project “Terascale Physics for the LHC and Cosmos” with O. Antipin as project leader.

This workshop was devoted to the subject of asymptotic safety from both perturbative and non-perturbative perspectives, including modern developments in gravity and ordinary gauge theories. On the gravity side, status of the asymptotic safety paradigm for quantum gravity with matter was discussed within the framework of functional renormalization group approach. On the gauge theory side, the status of large-NF expansion in the gauge-Yukawa theories was reviewed and possibility for simulating these theories on the lattice was mentioned. Moreover, different aspects of asymptotically safe extensions of the Standard Model were presented. As an outcome, the workshop contributed to the topic of asymptotic safety which is currently at the frontier of high energy physics due to the recent discovery of four dimensional asymptotically safe field theories which has opened the door to new ways to extend the Standard Model with impact in dark matter physics and cosmology.

The workshop was organized by Oleg Antipin (RBI) together with R. Percacci (SISSA), D. Benedetti (LPT) and F. Sannino (CP3-Origins, Odense, Denmark) and had 35 participants, 19 of which were invited speakers. Besides O. Antipin, DTP was represented by B. Melic and A. Maiezza. The workshop had a high regional impact with invited presentations by I. Picek (University of Zagreb, Croatia), B. Bajc (Josef Stefan Institute, Slovenia), G. Djordjevic and D. Dimitrijevic (University of Nis, Serbia) as well as researchers from leading European institutions among which are Universities of Liverpool, Sussex, Heidelberg, Utrecht, Helsinki and Lyon. The full list of invited speakers, scientific program and presentation slides are available at the workshop’s webpage.

As for the practical details, long 2.5-hour lunch time was allocated each day with the idea of an informal in-depth discussion following the talks of the



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morning session. The workshop dinner took place in the restaurant “Val Marina” at the renowned marina-front terrace with stunning views on the harbour of Hvar and, in addition, boat cruise trip around the island was organized.

Workshop was successful in creating new collaborations between DTP and the nodes institutions which is exemplified by the follow-up scheduled participation of O. Antipin (RBI) in the workshop in Catania, Italy, on June 10-12, 2019 co-organized by Dario Benedetti (LPT), with the main aim to bring together researchers focusing on the ultraviolet completion of the quantum field theories of gravity and particle physics. In addition, in 2019 O. Antipin is planning to visit University of Nis, Serbia through the ICTP-SEENET-NT03 network program, (<http://www.seenet-mtp.info/news/approved-continuation-nt-03-program-project>).

2. The conference on “Modern Aspects of Quantum Physics”, 1 – 5 October 2018, RBI, Zagreb, Croatia.

Organisation: Fabio Franchini, Ugo Marzolino (RBI).

Website: <https://maqp.irb.hr>.

This event was organized with the aim of gathering young researchers and experts in new frontiers of quantum and statistical physics, to share their activities on the forefront of these fields, promote the exchange of ideas, and foster the creation of new collaborations. It was hosted by the Rudjer Boskovic Institute.

25 world leading international researchers and professors accepted our invitation and we received 12 additional applications from scientists from all around continental Europe who wanted to present their work, and 8 were accepted. Also, two international students applied and were accepted to participate without presenting and several local physicists attended the seminars.

Although 5 invited speakers had to cancel their participation at the last minute (a relatively standard, physiological number, we remark), the workshop was a success, with great presentations describing the works done at leading European institutions such as the Niels Bohr Institute in Copenhagen, University of Freiburg “Albert-Ludwig”, University of Munich “Ludwig-Maximilian”, University of Paris-Sud, University of Strasbourg, ICTP, SISSA and the University in Trieste, University of Konstanz, University of Tübingen “Eberhard Karls”, University of Luxembourg, Zagreb’s Institute of Physics, Rudjer Boskovic Institute and University of Zagreb.



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As the goal of this workshop was both to feature the most interesting developments in the field of quantum physics and to create a fertile environment for the emergence of new ideas and collaborations, the schedule was arranged to foster these objectives, with 4 invited talks and 2 contributed talks every day (for a total of 20 invited and 8 contributed seminars), two coffee breaks and an ample lunch break for discussions (served at the RBI campus cafeteria), and an organized two hours long discussion session every day. The latter were particularly interesting, as they allowed to elaborate on topics introduced in the previous talks, to put them into a wider context, and to speculate on new directions of research and new perspectives. A social dinner was offered on Wednesday at Baltazar (in Zagreb city centre) as well as a tour of the city on Friday late afternoon.

The topics discussed during the workshop covered very hot recent topics in quantum statistical physics (non-equilibrium, quenches, driven and open quantum systems), modern fundamental aspects of quantum physics which are instrumental in the impending realizations of quantum technologies (quantum interference, coherence, entanglement, non-local correlations, and indistinguishability), advanced topics of statistical physics with applications in condensed matter (disordered systems, random matrices), experimental advances and mathematical aspects.

The aforementioned topics are an excellent representation of the Modern Aspects of Quantum Physics, which are attracting much interest and effort in the scientific, technological and non-scientific community, with interdisciplinary and technological applications, including a European FET Quantum Technology Flagship. This workshop has been successful in reminding the community of the advanced research already being carried on at RBI and in Zagreb, in illustrating the new ideas being pursued in Europe, and in creating new synergies for the future.

3. “Getting to grips with QCD”, 4 - 6 April 2018, Paris, France.

Organizing Committee: Damir Bečirević, Benoit Blossier, Sebastien Descotes-Genon, Samuel Wallon (LPT), Goran Duplančić, Blaženka Melić, Kornelija Passek-Kumerički (RBI), and Jean-Philippe Lansberg (IPN Orsay).

Website: <https://indico.cern.ch/event/685400/>.

The idea behind this added event (approved by REA officer in Dec 2017 and already mentioned in D2.4) was to provide a bridge between two lines of research at RBI and twinning institutions, possibly fostering new collaborations. The participation of experts from other institutions secured the up-to-date coverage of the topics and increased the impact of the meeting. The researchers from the LPT Orsay partner institution initiated this event, while the



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RBI researchers worked actively in its organization, had an opportunity to present their work and benefited from the presented material, discussions and new contacts.

The workshop covered two main topics of interest for the scientists of the network working in particle physics: the interface between inclusive and exclusive processes and the taming of the hadronic uncertainties in flavour physics processes. The recent theoretical progress in QCD was discussed, and in particular the aspects relevant to the experimental searches of physics beyond the Standard Model, as well as those permitting a better understanding of the Standard Model physics phenomena.

Due to success of this workshop (many scientists asked about the possibility of a follow-up) and due to the fact that not all relevant topics could be covered in-depth in such a short meeting, while some are of special interest for RBI researchers, the workshop “Getting to Grips with QCD - Summer Edition” (Subtask 2.1.2) adopted similar form.

The workshop was attended by 58 participants (from 9 countries; 6+1 participant from Croatia) and RBI was represented by: Goran Duplančić, Blaženka Melić, Kornelija Passek-Kumerički, Oleg Antipin (senior researchers) and Domagoj Leljak, Goran Popara (PhD students) For D. Leljak, this event marked the first occasion of the contributed talk at the international scientific event.

The workshop was held at the Amphithéâtre Pasquier, Campus des Cordeliers, School of Medicine (Paris). As the workshop lasted only for 3 days, among the social activities, only conference dinner was organized at the restaurant MARTY.

Task 2.2 Supporting and promoting collaborations (visits on both sides) stretches throughout the whole duration of the project. The objective of this task is to support and foster the collaboration with partners and possibly, through project partners, also with researchers from international community. Foreseen activities include exchange of researchers, i.e. periods of visits of scientists from DTP to the twinned institutions and vice versa. Each DTP group identified relevant research team from partner institutions with whom they can start discussions, initiate collaborations on the investigations of various phenomena of mutual interest, acquire new knowledge and expertise, learn latest techniques, methods and approaches used in their field of research, benefit from partners’ facilities.



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In the third year of the project a total of 24 collaborative visits to the partner institutions were realized (to be compared with 22 visits in the second year). 17 DTP members took part in these visits (at the moment there are 31 researchers in the department), spending approximately 264 days at partner institutions. Moreover, 11 visits to external institutions occurred (compared to 18 visits in the second year).

Below we provide the full list of accomplishments to date within Task 2.2 starting from the last report, for continuity.

DTP member	Visiting institution	Period of stay	Seminar/Talk	Note
Athanasios Chatzistavarakidis	Fakultät für Physik, Mathematische Physik, Universität Wien, Austria	4 – 11 February 2018		
Athanasios Chatzistavarakidis	LMU Munich, Germany	14 – 17 February 2018		
Tajron Jurić	LPT Orsay, France	16 March – 9 April 2018	Noncommutative field theory	
Vinko Zlatić	IMT School for advanced studies Lucca, Italy	27 – 29 March 2018		*Accommodation provided by the visiting institution
Ugo Marzolino	Institut für Theoretische Physik – Computational Physics, Graz University of Technology, Austria	9 – 12 April 2018	Quantum Fisher information with thermal states and non-equilibrium steady states	*Accommodation provided by the visiting institution
Oleg Antipin	CP3-Origins Center, Odense, Denmark	9 – 17 April 2018		*Accommodation provided by the visiting institution
Blaženka Melić	Institut für Physik, Johannes Gutenberg Universität	9 April – 30 June 2018		*RBI covered only travel expenses.



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	Mainz, Germany			
Alessio Maiezza	ICTP, Trieste, Italy	4 – 14 May 2018		*Accommodation provided.
Athanasios Chatzistavrakidis	LMU Munich, Germany	6 May – 3 June 2018		
Ugo Marzolino	Dipartimento di Energia, Ingegneria dell'Informazione e Modelli Matematici (DEIM), Università degli Studi di Palermo, Italy	7 – 11 May 2018	Entanglement and (in)distinguishability	
Fech Scen Khoo	LMU Munich, Germany	9 May – 3 June 2018	Double Field Theory: Algebroid and Sigma-Model	
Ugo Marzolino	Università degli Studi di Aquila, Italy	14 – 18 May 2018	Entanglement and (in)distinguishability,	*RBI provided daily allowance and covered travel expenses.
Predrag Lazić	Donostia International Physics Center (DIPC), Donostia - San Sebastián, Spain	16 – 24 May 2018	2D van der Waals materials and some new aspects of surface science	
Ivor Lončarić	Donostia International Physics Center (DIPC), Donostia - San Sebastián, Spain	16 – 24 May 2018	Theoretical methods to study femtosecond laser desorption processes	*The visiting institution provided accommodation and covered travel expenses.
Kornelija Passek-	LPT Orsay, France	16 – 30 May 2018		



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Kumerički				
Goran Duplančić	LPT Orsay, France	21 – 30 May 2018		
Kornelija Passek-Kumerički	LPT Orsay, France	17 – 30 June 2018		
Predrag Lazić	SISSA, Trieste, Italy	20 June 2018		
Ivor Lončarić	SISSA, Trieste, Italy	20 June 2018		
Goran Duplančić	LPT Orsay, France	23 June – 1 July 2018		
Larisa Jonke	LMU Munich, Germany	21 October – 17 November 2018		
Athanasios Chatzistavrakidis	LMU Munich, Germany	21 October – 17 November 2018		
Tania Natalie Robens	Deutsches Elektronen-Synchrotron (DESY) Hamburg, Germany	12 – 16 November 2018		
Tajron Jurić	LPT Orsay, France	22 – 29 November 2018		
Larisa Jonke	LMU Munich, Germany	25 November – 15 December 2018		
Athanasios Chatzistavrakidis	LMU Munich, Germany	25 November – 15 December 2018		
Kornelija Passek-Kumerički	LPT Orsay, France	4 – 19 December 2018		
Goran Duplančić	LPT Orsay, France	5 – 13 December 2018		
Luca Grisanti	SISSA, Trieste, Italy	10 December 2018		
Ivor Lončarić	SISSA, Trieste, Italy	8 – 12 January 2019		
Mihovil Bosnar	SISSA, Trieste, Italy	8 – 12 January 2019		



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Duration: 36 months

Luca Grisanti	SISSA, Trieste, Italy	8 – 12 January 2019		
Fabio Franchini	LPT Orsay, France	14 – 18 January 2019	Universal Dynamics of a Localized Excitation after a global Interaction Quench	
Blaženka Melić	LMU Munich, Germany	21 – 25 January 2019	Bc semileptonic decays as a probe of lepton flavour universality	
Oleg Antipin	LMU Munich, Germany	21 – 25 January 2019		



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