



БелИСА



## DIASPORA WORKSHOP ON QUANTUM TECHNOLOGIES WITHIN ICQOQI'2017, THE XV INTERNATIONAL CONFERENCE ON QUANTUM OPTICS AND QUANTUM INFORMATION

21 November 2017, Minsk, Belarus

### AGENDA

14.00 – 16.00

**Invited talks of the 4 distinguished EU experts - representatives of Belarusian scientific diaspora, Session Tu21C(C) “Scattering and Communication”,**

**Venue: BELARUS Hotel, 15 Storozhevskaya str., 2<sup>nd</sup> floor**

Moderator: Dr. Dmitry Horoshko, Institute of Physics NAS (Belarus)

Practical multi-partite secure quantum communication using homodyne detection  
Prof. Natalia Korolkova, University of St. Andrews (UK)

Photons in one-dimensional structures  
Prof. Vladimir Gritsev, University of Amsterdam (Netherlands)

Quantum effects in strong field QED  
Dr. Oleg Skoromnik, Max Planck Institute for Nuclear Physics (Germany)

Potential of adaptive optics to counteract entanglement degradation of twisted photons in atmospheric turbulence  
Dr. Vyacheslav Shatokhin, Institute of Physics, Albert-Ludwigs University of Freiburg (Germany)

16.20 – 18.30

**Round table: presenting the international cooperation experiences and discussing prospective topics and instruments over a cup of tea**

**Venue: MOSCOW House, 86, Kommunisticheskaya str. (next to BELARUS hotel), Red Hall (1<sup>st</sup> floor)**

Moderators: Dr. Dmitri Mogilevtsev, Institute of Physics & Ms. Olga Meerovskaya, BelISA

Tour-de-table

Ms. Olga Meerovskaya, BelISA, EaP PLUS partner, H2020 Coordinator in Belarus:

- EaP PLUS project and its instruments to support Belarus – EU cooperation at the level of research teams
- Promising niches for collaboration on quantum technologies in H2020 in 2018-2020 and available instruments

**Participants, both diaspora representatives and local researchers from academic sector and industry with up to 10-15' oral presentations on the**



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following topics:

- overview of the recently completed and ongoing international projects that may provide basis for new applications,
- specific challenges or concrete project ideas that could be jointly implemented in H2020, COST or other fora

### **Discussion of prospective topics and instruments (all participants)**

Questions for guiding the discussion:

- Do you in principle consider Horizon2020 is worth to put some efforts in?
- Are there any alternatives for funding international cooperation in your countries that provide funding for BY legal entities?
- Which are usual forms of cooperation between local and diaspora researchers?
- Have you realized prospective niches for joint participation in 2018-2019 calls? Will you think of applying?
- R&D (RIA) and innovation projects (IA) vs mobility and networking projects (MSCA RISE, COST)
- Which benefits you see for your organizations in “light” schemes, e.g. RISE, COST?

### **Wrap-up and closure**



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