Project full title | Connecting Russian and European Measures for Large-scale Research Infrastructures
---|---
Project acronym | CREMLIN
Grant agreement no. | 654166
Instrument | Coordination and Support Action (CSA)
Duration | 01/09/2015 – 30/08/2018
Website | www.cremlin.eu

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No. 654166.
Workshop poster:

Website of the workshop:

https://indico.desy.de/conferenceDisplay.py?ovw=True&confid=14124

Workshop photo:
Agenda of the workshop:

Day 1, August 22\textsuperscript{nd} 2016: https://indico.desy.de/conferenceTimeTable.py?confId=14124#20160822.detailed

Mon 22/8

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td>08:00</td>
<td>Welcome, Introduction to CERN and to the EU Kremlin project.</td>
<td>Room Charpak, 6th floor, CERN</td>
</tr>
<tr>
<td>09:00</td>
<td>Accelerator design for circular high-energy e+e- colliders</td>
<td>Room Charpak, 6th floor, CERN</td>
</tr>
<tr>
<td>10:00</td>
<td>Coffee break</td>
<td>Room Charpak, 6th floor, CERN</td>
</tr>
<tr>
<td>11:00</td>
<td>Towards a monochromatization scheme for direct Higgs production at FCC-ee</td>
<td>Room Charpak, 6th floor, CERN</td>
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<tr>
<td>12:00</td>
<td>Lunch</td>
<td>Restaurant, CERN</td>
</tr>
<tr>
<td>13:00</td>
<td>LINAC4</td>
<td>Bld. 500 entrance, CERN</td>
</tr>
<tr>
<td>14:00</td>
<td>CLIC</td>
<td>Bld. 500 entrance, CERN</td>
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<tr>
<td>15:00</td>
<td>Physics at high-energy e+e- colliders</td>
<td>Room Charpak, 6th floor, CERN</td>
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<tr>
<td>16:00</td>
<td>The CLIC Detector Concept</td>
<td>Room Charpak, 6th floor, CERN</td>
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<tr>
<td>17:00</td>
<td>Group Photo</td>
<td>Building 500, CERN</td>
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<tr>
<td>18:00</td>
<td>Development of the new spectrometric channel for the SND electromagnetic calorimeter</td>
<td>Room Charpak, 6th floor, CERN</td>
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<tr>
<td>19:00</td>
<td>The CMD-3 Data Acquisition System</td>
<td>Room Charpak, 6th floor, CERN</td>
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**Day 2, August 23rd 2016:** https://indico.desy.de/conferenceTimeTable.py?confId=14124#20160823.detailed

### Tue 23/8

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<tr>
<td>08:00</td>
<td><strong>Physics at tau-charm-beauty facilities</strong></td>
<td>Room Chaspek, building 60, 6th floor, CERN</td>
</tr>
<tr>
<td>09:00</td>
<td>Coffe break</td>
<td>Room Chaspek, building 60, 6th floor, CERN</td>
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<tr>
<td>10:00</td>
<td>Quasiclassical approach and high energy QED processes in the field of a heavy atom</td>
<td>Room Chaspek, building 60, 6th floor, CERN</td>
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<td>11:00</td>
<td>Measurement of $\sigma_{ee}(J/\psi p)$ with KEDR detector at the VEPP-4M collider</td>
<td>Room Chaspek, building 60, 6th floor, CERN</td>
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<td>11:00</td>
<td>BSM physics constraints from Higgs measurements at future $e^+e^-$ colliders</td>
<td>Room Chaspek, building 60, 6th floor, CERN</td>
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<tr>
<td>11:00</td>
<td>Study of the conversion decays of omega meson into $\pi^0$ meson and $e^+e^-$ pair with the CMD-3 detector</td>
<td>Room Chaspek, building 60, 6th floor, CERN</td>
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<tr>
<td>11:00</td>
<td>Luminosity measurement with the CMD-3 detector at the VEPP-2000 $e^+e^-$ collider</td>
<td>Room Chaspek, building 60, 6th floor, CERN</td>
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<td>11:00</td>
<td>Silica fiber Cherenkov radiation monitor to study transverse beam tails in storage ring</td>
<td>Room Chaspek, building 60, 6th floor, CERN</td>
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<tr>
<td>12:00</td>
<td>Lunch</td>
<td>Restaurant 1, CERN</td>
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<td>13:00</td>
<td><strong>Accelerator design for tau-charm-beauty facilities</strong></td>
<td>Room Chaspek, building 60, 6th floor, CERN</td>
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<td>14:00</td>
<td>FCC software strategies and challenges</td>
<td>Room Chaspek, building 60, 6th floor, CERN</td>
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<td>14:00</td>
<td>Linear Collider software for event simulation to reconstruction</td>
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<td>14:00</td>
<td>ILD DIRAC and CI: Automated testing for distributed jobs</td>
<td>Room Chaspek, building 60, 6th floor, CERN</td>
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<td>15:00</td>
<td>Coffe break</td>
<td>Room Chaspek, building 60, 6th floor, CERN</td>
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<td>15:00</td>
<td>Beam energy measurement by resonant depolarization method</td>
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<td>15:00</td>
<td>Fast and Precise Beam Energy Measurement Using Compton Backscattering at $e^+e^-$ Colliders</td>
<td>Room Chaspek, building 60, 6th floor, CERN</td>
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<td>16:00</td>
<td>High field studies for CLIC accelerating structures development</td>
<td>Room Chaspek, building 60, 6th floor, CERN</td>
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<td>16:00</td>
<td>Investigation of beam halo at the Accelerator Test Facility of KEK (Japan)</td>
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<td>16:00</td>
<td>Going to the Bus</td>
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<td>17:00</td>
<td>ALICE</td>
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<tr>
<td>18:00</td>
<td>LHC point 2, St Genis</td>
<td>Building 897, Provevain site</td>
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<td>19:00</td>
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**Day 3, August 24th 2016:** https://indico.desy.de/conferenceTimeTable.py?confId=14124#20160824.detailed

**Wed 24/8**

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<tr>
<td>08:30</td>
<td>LHC Experiments Status and plans</td>
<td>BORNAS, Kerstin</td>
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<td>09:00</td>
<td><strong>Coffe break</strong></td>
<td>Room Chargpak, building 60, 6th floor, CERN</td>
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<td>10:00</td>
<td>Injection - extraction systems for e+e- storage rings.</td>
<td>CASSEV, Alexey</td>
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<td>Low energy electron cooler for NICA Booster</td>
<td>DENISOV, Andrei</td>
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<td>Nichium Thin Film Technology for Superconducting RF Cavities</td>
<td>AULI, Sarah</td>
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<td>Design study of CEPC Alternating Magnetic Field Booster</td>
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<td>Synchrotron radiation beam diagnostics at BINP</td>
<td>DOROHOV, Viktor</td>
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<td>Application of a Low-Energy Electron Beam as a Tool for ultrashort bunch length measurement in circular machines.</td>
<td>NIKIFOROV, Danja</td>
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<td>12:00</td>
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<td>LINACs</td>
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<td>Antiproton Decelerator</td>
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<td>13:00 - 14:00</td>
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<td>14:30</td>
<td><strong>CLIC</strong></td>
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<td>14:00 - 15:00</td>
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<td>15:00</td>
<td>Tracking system of CMD-3 detection and kaon identification.</td>
<td>SOKYAKIN, Dmitry</td>
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<td>Vertex and tracker research and development for CLIC</td>
<td>MURKER, Magdalena</td>
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<td>GEN detectors in the experiments at e+e- colliders in BINP</td>
<td>MALYAEV, Tsvaifer</td>
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<td>16:00</td>
<td>FARICCH detector for the Super Charm-Tau factory in Novosibirsk</td>
<td>BARNYAKOV, Alexander</td>
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<td>Aerogel Cherenkov counters of the KEDIR detector</td>
<td>OZTI, Ivan</td>
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<td>17:00</td>
<td><strong>Coffe Break</strong></td>
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<td>Room Chargpak, building 60, 6th floor, CERN</td>
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<td>17:00</td>
<td><strong>Dynamical Aperture Control in Accelerator Lattices With Multipole Potentials</strong></td>
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<td>17:00</td>
<td>CEPC Partial Double Ring Lattice Design and SPPC Lattice Design</td>
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<td>17:00</td>
<td>Fast Kicker for High Current Beam Manipulation in Large Aperture</td>
<td>GAMBARYAN, Vagin</td>
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<td>18:00</td>
<td>Increase of dynamic aperture limited by sextupoles with the help of octupoles</td>
<td>KAREKINA, Kseniya</td>
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<tr>
<td>18:00</td>
<td>Realistic approach for beam dynamics simulation with synchrotron radiation in high energy circular lepton colliders</td>
<td>GURJYOV, Sergey</td>
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<td>Room Chargpak, building 60, 6th floor, CERN</td>
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<td>19:00</td>
<td>VEPP-2000 collider control system: operational experience.</td>
<td>SENCHYKO, Alexander</td>
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Day 4, August 25th 2016: https://indico.desy.de/conferenceTimeTable.py?confid=14124#20160825.detailed

**Thu 25/8**

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<tr>
<th>Time</th>
<th>Event Description</th>
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<tr>
<td>09:00</td>
<td><strong>Visit to Microcosm</strong></td>
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<td>10:00</td>
<td><strong>Visit to GLOBE</strong></td>
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<tr>
<td>10:00</td>
<td><strong>Introduction to Kremlin milestones and deliverables</strong> by LIMSEN, Lucie</td>
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<tr>
<td>10:05</td>
<td><strong>Discussion on Deliverable 7.2 (task 7.1): “Overview report on technological requirements...</strong></td>
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<td>10:05</td>
<td><strong>Milestone 7:2 (task 7.3): Creation of a Kremlin data management platform for lepton colliders...</strong></td>
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<tr>
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<td><strong>Milestone 7:2 (task 7.3): Creation of a Kremlin data management platform...</strong></td>
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<tr>
<td>10:05</td>
<td><strong>Discussion and conclusion on work plan for Milestone 7.2 (task 7.3)</strong></td>
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**Location:**
- Building 33, CERN
- Building 85, CERN
List of participants (61):

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<th>Name</th>
<th>Institution</th>
<th>City</th>
<th>Country/Region</th>
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Description:

The “CERN-BINP workshop for young scientists in e+e- colliders” was organised in the framework of the EU-funded CREMLIN project and took place from August 22nd to August 25th 2016 at CERN. At this occasion some ~30 scientists from Budker Institute and ~20 scientists from CERN, as well as ~10 further participants from Austria, China, France, Germany and Turkey got together to present and discuss their research on electron-positron colliders.

Within Cremlin, BINP and CERN coordinate a dedicated CREMLIN work package (WP7) focusing on a future Super-Charm-Tau factory (SCT) at BINP. Both BINP and CERN are engaged in the design of future state-of-the art electron positron colliders. BINP is preparing for the Super Charm-Tau factory, which aims at producing e+e- collisions at unprecedented intensity up to 5 GeV centre-of-mass energy. In parallel CERN is hosting design studies for two different e+e- colliders, FCC-ee and CLIC, with very high centre-of-mass energies ranging from 90 GeV to 3 TeV. In matters of physics, design and technologies the BINP and CERN studies address technological and scientific questions of common interest. Similar issues are dealt with in the framework of other flavour factories and energy frontier e+e- colliders worldwide.

The workshop provided young scientists (at the student and postdoc level) opportunities to present their work and exchange experiences. The program included 5 lectures by prominent scientists on accelerator design, particle detectors and physics studies. Numerous site visits all around CERN were part of the programme. An executive Cremlin work meeting for work package 7, as well as individual exchanges and further visits took place on the 4th day of the workshop.

The workshop provided an excellent overview of technology challenges and corresponding research progress in the topical domains of:

- Accelerator design and technologies
- Detector design and technologies
- Physics and computing

All talks are available on the workshop indico site and form a good knowledge basis for establishing collaborative actions. Workshop proceedings will be published in the CERN-proceedings series. Contributions to the proceedings are currently under review by the topical session conveners and the organizing committee of the workshop.

News articles:

News articles on the workshop have been published on the web sites of BINP and CERN:

BINP news article:

CERN news article:
http://home.cern/cern-people/updates/2016/08/young-scientists-gather-workshop-ee-colliders

Corresponding link to the Cremlin website:
https://www.cremlin.eu/news/2016/young_scientists_gather_for_workshop_on_ee_colliders/