

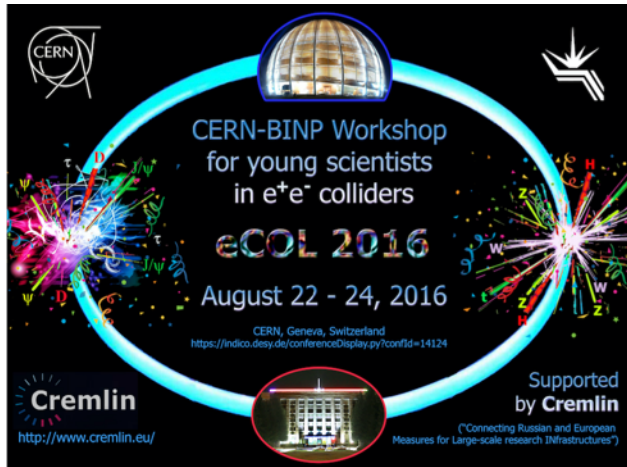
Work Package 7

Super Charm-Tau facility at Budker Institute

Collaboration between
Budker Institute, Novosibirsk, Russia
CERN, Geneva, Switzerland

Participants at this meeting:
BINP: Yury Malakhov, Yuriy Tikhonov, Vitaly Vorobyev
CERN: Lucie Linssen

A few WP7 activities/achievements (1)



August 2016: **workshop for young scientists in e^+e^- colliders**

<https://indico.desy.de/conferenceDisplay.py?ovw=True&confId=14124>

61 participants

Cremlin deliverable [D7.1](#)

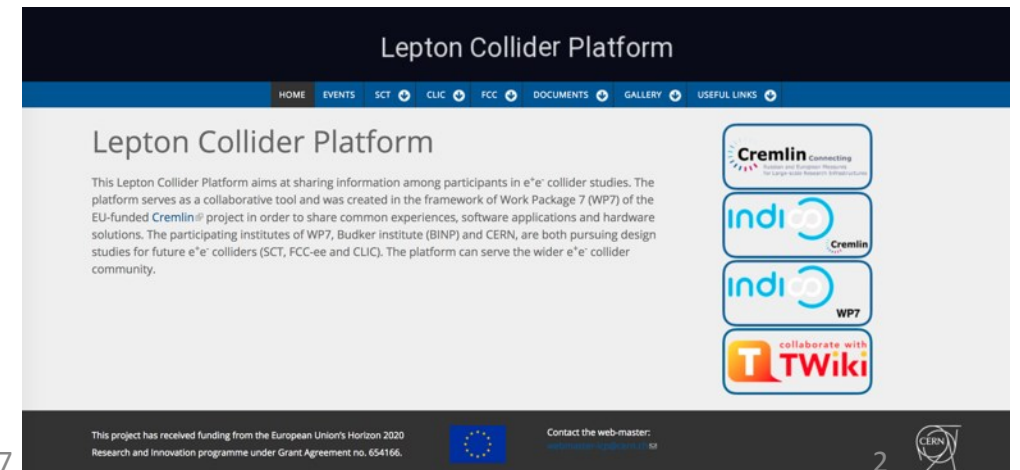
[Workshop Proceedings book](#), contains **SCT technology requirements overview report**

Cremlin deliverable [D7.2](#)



[Lepton Collider Platform](#) for **exchange of information:**

Cremlin deliverable [D7.5](#)



A few WP7 activities/achievements (2)

Nomination of an International Advisory Committee for the SCT facility
Cremlin milestone D7.1

Workshop focusing on internationalisation and joint research for STC

⇒ [SCT internationalisation meeting](#), May 26-27 at BINP

77 participants: 8 Russian non BINP, 25 BINP, 44 foreign

Corresponding Cremlin deliverable D7.3 to be produced soon.

First meeting of the International Advisory Committee for SCT facility

May 26-27 2018, IAC report in preparation



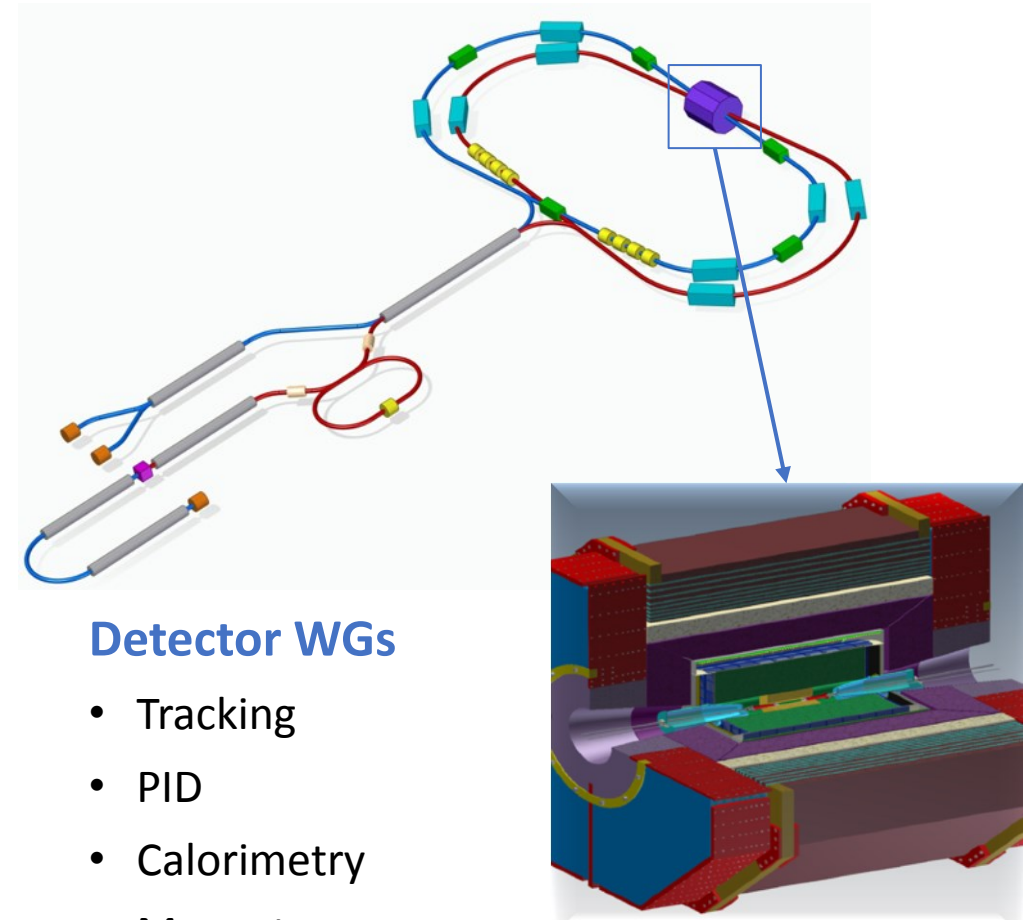
EU Cremlin, June 5-6, 2018, WP7



The SCT next steps

Steps toward internationalization of the SCT project

1. To finalize the existing preliminary CDR and to begin work on TDR with broad participation of partners
2. To promote the SCT project by means of dedicated talks at International conferences and seminars in leading research centers and universities
3. To increase number of partners
 - Current partners: CERN, KEK, LNF INFN, JINR (Dubna), LPI (Moscow)
 - Preliminary agreement for DC R&D with Lecce INFN is achieved. A formal agreement is under preparation
 - BINP management and leaders of the HIEPA project (informally) agreed to jointly engage in R&D activities
4. To extend and internationalize SCT working groups (WGs) to reinforce activities on different aspects of the SCT project
5. To include SCT in the framework of European Strategy for Particle Physics



Detector WGs

- Tracking
- PID
- Calorimetry
- Magnet
- Trigger & DAQ
- Computing
- Detector simulation
- Physics and data analysis

The SCT next steps

Regular SCT general meetings (twice a year)

- All Russian meeting at BINP (Dec. 18-19, 2017)
- International meeting at BINP (May 26-27, 2018)
- The next meeting is suggested to held at LAL, Orsay on Dec. 4 – 7, 2018

International advisory committee (IAC)

- The first meeting of the IAC on physics and detector was held during the SCT meeting (May 26-27, 2018)
- Accelerator MAC is under discussion

R&D for the SCT Collider

- Development of the collider project using experience of SuperKEKB and ideas from the FCC-ee project in which BINP actively participate
- R&D for critical accelerator components in BINP

R&D for the SCT Detector

- Cylindrical GEM as **inner tracker** (prototype at BINP, *Pisa INFN?*). KLOE cGEM
- **Drift chamber** (BINP, Lecce INFN). New KMD3 DC
- FARICH as **PID system** (prototype at BINP, *Giessen U.?*, *LAL Orsay?*)
- Pure CsI based **ECal** (prototype at BINP, *KEK?*)
- Scintillator based **muon system** (BINP, LPI Moscow). Same approach as at Belle II
- **Magnet** (BINP). PANDA magnet as a prototype for SCT
- Strong **simulation** effort with input from each Detector WG