

**SND@LHC Collaboration****15 December 2020****Minutes of the 2<sup>nd</sup> SND@LHC Institute Board  
(Zoom, 15 December 2020)****Present:**

M. Bogomilov (Sofia, Bulgaria), M. Campanelli (University College London, UK), M. Dallavalle (Bologna, Italy), G. De Lellis (interim Spokesperson), A. Di Crescenzo (Napoli, also representing S. Simone, Bari, Italy), E. van Herwijnen (MISiS, Russia), R. Jacobsson (interim Technical Coordinator), H. Lacker (Berlin, Germany), N. Leonardo (Coimbra, Portugal), M. Komatsu (Nagoya and Toho, Japan), N. Polukhina (interim Chairperson, Lebedev, Russia also representing A. Golutvin, Imperial College London, UK), T. Roganova (Skobeltsyn Institute of Nuclear Physics, Russia), O. Ruchyaskiy (Kopenhagen, Denmark), T. Ruf (CERN), T. Shchedrina (P.N. Lebedev Institute of Physics, Russia), L. Shchutka (EPFL Lausanne, Switzerland), V. Shevchenko (Kurchatov, Russia), R. Wanke (Mainz, Germany), C. S. Yoon (Geyongsang, Korea).

**Exceptionally present:**

S. Kuleshov (UNAB, Santiago, Chili)

**1. Minutes of the previous meeting**

The minutes of the IB of 8 October were approved.

**2. Administrative matters**

Some group leaders do not use CERN email addresses and may not receive communications. They should contact N. Polukhina.

**3. News from the management**

G. De Lellis: after fruitful discussions with the LHCC referees and chairman, the TP has to be submitted by mid-January in time for approval of the experiment at the Research Board in March. This implies a tight schedule for reading by the Collaboration. Critical areas are:

- resources for the construction of the subdetectors;
- manpower to provide the software required for simulation and analysis. A list of tasks should be made available.

Subdetector conveners are requested to send the name of their software representative to T. Ruf.

R. Jacobsson: the funding of the emulsion films seems insufficient. E. van Herwijnen confirmed that MISiS will not be able to fund 220 m<sup>2</sup>. Negotiations with Slavich are ongoing to see if the price can be reduced. Komatsu has obtained machine time (at the end of 2021) for 100 m<sup>2</sup> at Nagoya and is waiting for the outcome of a funding request in April. Yoon will provide manpower for emulsion production in Nagoya. In comparison to Nagoya, the price quoted by Slavich seems reasonable, as the production is very labour intensive. In addition, the price of silver has increased due to the pandemic. M. Bogomilov will ask R. Tsenov who should be contacted at JINR to see whether they could join the Collaboration and participate with the emulsion procurement. If the LHC schedule does not slip further, 90 m<sup>2</sup> will be required in 2021.

#### **4. Round table**

##### **Napoli & Bari**

Napoli have ordered tungsten, and will take care of the mechanical support for the target and muon system. Bari will participate in the target assembly, handling and development of emulsion.

##### **Bologna**

Have started participation in the muon detector. They will contribute to the PCB containing the SiPMs and the mechanics. They intend to participate in emulsion scanning. They have an OPERA table, that has to be upgraded.. An answer from INFN for a request for funds is expected next year.

##### **Skobeltsyn**

Will participate with emulsion scanning. Their Opera tables could be upgraded. They have manpower and will participate in the simulation of LDM.

##### **MISiS**

The approval of 10 year research plan has been delayed until the end of December or early 2021.

##### **Lebedev**

Emulsion quality control. Contacts with Slavich. Scanning. Collaborate with MISiS.

##### **Berlin**

Participate in the upstream veto and 5 muon stations with Zurich and Mainz. 2 PhD students, to be shared between the SHiP SBT and SND@LHC, will start in spring next year. A list of projects should be made with simulation tasks that they could contribute to.

##### **Nagoya & Toho**

Have obtained machine time for emulsion production at the end of 2021. The reply to a request for funding will come in April.

##### **CERN**

Good discussion with EP management. More concrete support will be obtained after approval by the Research Board.

##### **Geyongsang**

Will participate with the emulsion production in Nagoya.

##### **Sofia**

Has been promised funds that would enable travel to CERN in autumn to participate with commissioning.

##### **Lausanne**

EPFL will take care of the SciFi planes and the DAQ. A Ph.D. student can help with simulation.

**Mainz**

A PhD student shared between SHiP and SND@LHC (20%) will start.

**University College London**

Small amount of funds available. A PhD student is working on the emulsion tracking.

**Santiago**

A large grant has been obtained. UNAB's contribution to SND@LHC can be discussed at the beginning of next year. IB to ask you to write an application letter, which IB will discuss at the meeting February 19. After such discussion IB will invite Sergey Kuleshov to a forthcoming IB (perhaps early in April) and ask him to present his group and how group intends to contribute. After presentation IB will vote.

**5. Next IB meeting**

The next IB meeting will tentatively be held during the week of 15 February 2021.

There being no further business, the chairperson closed the meeting.

N. Polukhina