

SND@LHC Collaboration

19 February 2021

**Minutes of the 3rd SND@LHC Institute Board
(Zoom, 19 February 2021)**

Present:

M. Bogomilov (Sofia, Bulgaria), M. Dallavalle (Bologna, Italy), G. De Lellis (interim Spokesperson), A. Di Crescenzo (Napoli, Italy), E. van Herwijnen (MISiS, Russia), M.A. Guler (METU, Turkish), 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), 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:

Alberto Blanco (Portugal)

1. Discussion of Memorandum of Understanding and SND@LHC funding.

Richard Jacobsson present information about evaluation financial situation as concerned as SND@LHC experiment and draft of MOU.

Table for current status of funding discussed in detail:

Current status of funding:																
• Direct funding of C&I provided as "deliverables" (funds remain under institutional responsibility):																
System	TP	TP 1st year	LOI	Naples	MISiS	LPI(RU)	METU(TR)	GNUE(KR)	NU(UP)	EPFL	Berlin	Bologna	Mainz	Zurich	CERN	Totals
Infrastructure	141.6		120.0												141.6	0.0
Emulsion lab	66.0	30.0	not incl.					10.0								20.0
Scanning microscopes	130.0		not incl.	26.0		26.0						26.0		26.0	26.0	0.0
VETO system	10.3		10.0											10.3		0.0
Emulsion target	904.1	480.1	405.0	248.0	212.0		20.0									0.1
Target tracker	68.5		280.0							68.5						0.0
Muon system	88.4		160.0								23.8	16.8	21.8	18.7		7.3
Electronics (all)	238.1		incl in det.							182.5	15.2	15.2	15.2	10.0		0.0
DAQ + online	29.0		not incl.							29.0						0.0
	1676.0	1216.0	975.0	274.0	212.0	26.0	20.0	10.0	0.0	280.0	39.0	58.0	37.0	65.0	167.6	27.4

The main point expressed by the participants in the discussion is that most groups will be able to receive funding for the experiment only after its approval by CERN.

In particular,

A.Golutvin, E. van Herwijnen, V.Shevchenko: The amount that MISiS intends to pay is optimistic, and highly preliminary, not yet guaranteed. Budget for MISiS not signed today, we are waiting up to April.

M.Komatsu: also in Japan budget not guaranteed, and both Japan group will do our best for production of 100 sq m emulsion layers.

C. S. Yoon: we plan to receive money for part of chemical payment.

A.Blanco: we hope to receive money in next year.

M. Dallavalle: INFN delay taking of decision up to approval experiment at CERN, we hope, it will be at the end of spring.

M.A. Guler: METU group will submit the fund application in March. The applied fund will cover travel expenses.

O. Ruchyaskiy: we send request, decision will be at June. It is possible to use money for hardware.

T.Shchedrina: we work together with MISiS for emulsion production at SLAVICH. We check emulsion quality and so on. Also we would like to correct financial table in Richard presentation: LPI received 55 kCHF (not 26!) for upgrading scanning station.

A. Di Crescenzo: there are information about Napoli finance in few presentations today. We use 20 kEURO for W target and 25 kEURO for prototype construction.

T.Roganova: we try to receive money for scanning station upgrade, we do our best.

As concerned as MOU participant take decision to continue its signing and corrections by e-mail letters.

2. Minutes of the previous meeting

The minutes of the IB of 15 December were approved.

3. Discussion of letter of interest from Santiago.

IB received an application letter from Sergey Kuleshov, the director of the SAPHIR, ANID, Chile The director of the Center for Theoretical and Experimental Particle Physics of UNAB, Santiago, Chile.

He present request to include in collaboration participants from

-Teams of Universidad Andrés Bello (UNAB, Santiago), Pontificia Universidad Catolica de Chile (PUC, Santiago) and Universidad La Serena (ULS, La Serena) are interested in the SND experiment.

-UNAB team: Sergey Kuleshov (Institutes leader, full professor of UNAB), Sergey Kovaleko (full professor of UNAB), Jilberto Zamora-Saa (assistant professor of UNAB), 2 engineers and 2 technicians.

- PUC team: Angel Abusleme (full professor of PUC), Francisca Garay Walls (assistant professor of PUC).

- ULS team: Juan Carlos Helo (full professor of ULS), Pablo Ulloa (assistant professor).

They are going to make a contribution into the detector design and construction, detector simulation with FLUKA and data analysis.

Andrey Golutvin, in particular, knows Sergey well and highly appreciates his professional qualities as a physicist and as a group leader. Participants evaluated as very positive such request and decided to continue discussion with Sergey about level of financial contribution and way of such contribution. 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.

4. Next IB meeting

The next IB meeting will tentatively after approval by CERN SND@LHC project.

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

N. Polukhina