

6th MPD IB Meeting

JINR, October 29, 2020

- ❖ MoU update
- ❖ CF implementation

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MoU

- ❑ About a year ago, on October 2019, in Warsaw, it was decided in coordination with Vice-Director Kekelidze and Spokesperson Kisiel, to start a focused effort toward the realization of the MoUs.
- ❑ Most groups participating in the MPD experiment were contacted to initiate the establishment of MoUs.
- ❑ Slow down during the past ~7 months due to the current pandemic situation.
- ❑ Very good progress has been achieved.

MoU

The MoU has been signed with the following Institutions:

Country	Institution	Group Leader
Bulgaria	University of Plovdiv	Vanio Tcholakov
Czech Republic	Palacky U., Olomouc	Miroslav Maslan
Mexico	Mexican Consortium	Alejandro Ayala
Poland	Jan Kochanowski University	Maciej Rybczinski
Poland	National Center for Nucl. Res., Otwock–Swierk	Marcin Bielewicz
Poland	University of Warsaw	Tomasz Matulewicz
Poland	Warsaw University of Technology, Warsaw	Adam Kisiel
Poland	University of Wroclaw	David Blaschke
Russia	Belgorod National Research University	Kristina Vokhmyanina
Russia	INR RAS, Moscow	Alexander Ivashkin
Russia	Moscow Institute of Physics and Technology	Tagir Aushev
Russia	NRC "Kurchatov Institute" - ITEP, Moscow	Viacheslav Kulikov
Russia	SINP, Moscow State University	Michael Merkin

MoU

Under signature

Country	Institution	Group Leader
Armenia	A.Alikhanyan National Lab of Armenia	Hovik Grigorian
Azerbaijan	National Nuclear Research Center, Baku	Anar Rustamov
Czech Republic	Nuclear Physics Institute CAS	Andrej Kugler
Poland	University of Silesia, Katowice	Seweryn Kowalski

In progress:

Country	Institution	Group Leader
Russia	Kurchatov Inst. NRC, Moscow	Dmitri Blau
Russia	MEPhI, Moscow	Arkadiy Taranenko
Russia	North Ossetian State University, Vladikavkaz	Nelli Pukhaeva
Russia	PNPI, Gatchina	Victor Riabov
Russia	St. Petersburg State University	Grigory Feofilov

MoU (II)

Pending:

Country	Institution	Group Leader	MoU
Chile	U. Tecnica Federico Santa Maria, Valparaiso	Serguei Kuleshov	Not started
China	Central China Normal University	Feng Liu	Started 15.9.2020
China	Huzhou University	Fuqiang Wang	
China	University of Chinese Academy of Sciences	Mei Huang	
China	Institute of Modern Physics of the CAS, Lanzhou	Chengxin Zhao	
China	Shandong University	Qinghua Xu	
China	Fudan University	Deqing Fang	
China	Three Gorges University	Shengqin Feng	
China	Tsinghua U., Beijing	Yi Wang	
China	University of South China	Xiaodong Wang	
China	USTC, Hefei	Zebo Tang	
Georgia	Tbilisi State University, Tbilisi	Revaz Shanidze	Started 13.8.20
Moldova	Inst. of Applied Physics, Chisinev	Mircea Baznat	Started 13.8.20

MoU

Summary October 29, 2020

- ❖ Negotiations engaged with most MPD groups:
 - 13 signed
 - 4 pending signature
 - 5 in progress
 - China, Georgia and Moldova started recently
- ❖ The signed MoUs are posted on the MPD website:
<http://mpd.jinr.ru/experiment/> → Collaboration → MPD MoUs

The page is intended for IB members only. Please ask Natasha for the password.

Common Fund

- The general guidelines for the establishment of the CF were adopted by the IB following the proposal made by the CF task force, convened by myself and composed of representatives from MPD (A. Kisiel, F. Wang, S. Golovatyuk, A. Sorin) and from BM@N (M. Kapishin, H-R Schmidt, P. Senger, A. Taranenko, T. Aushev, Y. Potrebenikov).
- Following discussions at the last IB meeting, the CF task force prepared an annex to the MoU with more details on the implementation of the Common Fund. We shall discuss this annex today.
- All group leaders were asked to provide information about the number of eligible paying members for the CF in their group. Status today:
 - 33 groups provided the requested information
 - 3 groups information still missing after repeated requests
 - Total number of eligible paying members for the CF is currently equal to 108

CF

Country	Institution	Group Leader	Group size	Eligible for CF
Armenia	A.Alikhanyan National Lab of Armenia	Hovik Grigorian	4	2
Azerbaijan	National Nuclear Research Center, Baku	Anar Rustamov	3	1
Bulgaria	University of Plovdiv	Vanio Tcholakov	7	1
Chile	U. Tecnica Federico Santa Maria, Valparaiso	Serguei Kuleshov	8	
China	Central China Normal University	Feng Liu	3	3
China	Huzhou University	Fuqiang Wang	3	3
China	University of Chinese Academy of Sciences	Mei Huang	2	1
China	Institute of Modern Physics, CAS, Lanzhou	Chengxin Zhao	11	2
China	Shandong University	Qinghua Xu	4	5
China	Fudan University	Deqing Fang	4	3
China	Three Gorges University	Shengqin Feng	4	3
China	Tsinghua U., Beijing	Yi Wang	13	5
China	University of South China	Xiaodong Wang	6	1
China	USTC, Hefei	Zebo Tang	9	2
Czech Republic	Nuclear Physics Institute CAS	Andrej Kugler	6	2
Czech Republic	Palacky U., Olomouc	Miroslav Maslan	4	3
Georgia	Tbilisi State University, Tbilisi	Revaz Shanidze	6	4
Mexico	Mexico Consortium - 6 institutons	Alejandro Ayala	21	5

CF

Country	Institution	Group Leader	Group size	Eligible for CF
Moldova	Inst. of Applied Physics, Chisinev	Mircea Baznat	3	
Poland	Jan Kochanowski University	Maciej Rybczinski	4	4
Poland	National Center for Nuclear Reseach, Otwock – Swierk	Marcin Bielewicz	16	5
Poland	University of Silesia, Katowice	Seweryn Kowalski	8	3
Poland	University of Warsaw	Tomasz Matulewicz	5	4
Poland	Warsaw University of Technology	Adam Kisiel	19	5
Poland	University of Wroclaw	David Blaschke	5	2
Russia	Belgorod National Research University	Kristina Vokhmyanina	4	2
Russia	INR RAS, Moscow	Alexander Ivashkin	10	5
Russia	JINR, Dubna	Yuri Potrebenikov		5
Russia	Kurchatov Inst. NRC, Moscow	Dmitri Blau	2	2
Russia	MEPhI, Moscow	Arkadiy Taranenko	16	5
Russia	Moscow Institute of Physics and Technology	Tagir Aushev	1	1
Russia	North Ossetian State University, Vladikavkaz	Nelli Pukhaeva	7	
Russia	NRC "Kurchatov Institute" - ITEP, Moscow	Viacheslav Kulikov	4	4
Russia	PNPI, Gatchina	Victor Riabov	21	5
Russia	SINP, Moscow State University	Michael Merkin	24	5
Russia	St. Petersburg State University	Grigory Feofilov	33	5

Annex to MoU on the CF (I)

This Annex provides additional and specific information on the MPD Common Fund.

Guidelines:

The Institutional Board has adopted the following scheme for the implementation of the CF:

1. Only members of the author list who received their PhD more than 5 years ago are counted as eligible paying members for the CF.
2. The contribution of a given institution shall be proportional to the number of eligible paying members of that institution, up to a maximum of 5 paying members.
3. If an institution cannot pay in cash its contribution to the CF, in-kind contribution shall be allowed. For example, one month of service work at JINR by a PhD student (post-doc/technician/engineer) shall be counted as a contribution of 50,000 (75,000) Rubles to the CF.
4. In exceptional cases, the IB could adjust the number of eligible paying members of an institution.

Annex to MoU on the CF (II)

CF Budget

The CF budget is established on an annual basis. It shall be submitted by the Project Manager to the IB for discussion and approval. For the years 2021-2025, it is estimated that the annual budget will change within reasonable limits dictated by the needs of the Collaboration, and in all cases shall not exceed 7 Million Rubles. It is estimated that the annual contribution per eligible paying member will stay approximately constant, at the level of 50,000 Rubles per eligible paying member, or even decrease over this 5 year period to the extent that the collaboration grows over time.

CF Implementation

- MPD management proposes to start implementing the CF in 2021.
- Given the current composition of the Collaboration, the total number of eligible paying members is 108 (there are 3 institutions that have not provided the relevant information). Assuming a cash contribution of 50,000 Rubles per eligible paying member, gives a total budget of 5.4 MRubles

CF budget - 2021

Item	Description	MRubles
1	Support the organization of Collaboration meetings	0.6
2	Attendance to Collaboration meeting of speakers with important presentation in case of financial problem of their groups	0.56
3	Support outside expert one week long visits	0.8
4	Consumables related to the detector operation (50%)	2.44
5	Stationary, printers for outside users offices	0.1
6	Contingency 20%	0.9
	Total	5.40

CF budget - 2021

The 2021 CF shall be used to cover the following expenses:

1. Support the organization of Collaboration meetings:

Total cost of 650 kRubl per meeting x 2 meetings per year x ~50% CF contribution

600,000

2. Attendance to Collaboration meeting of speakers with important presentation in case of financial problem of their groups:

Per person (Hotel 3K+perdiem 1K) – 4KRubl/day x 4 days = 16 KRubl +average travel expense 40KRubl → Total 56 KRubl per person x 5 persons per collaboration meeting

560,000

3. Support outside expert one week long visits at JINR to perform essential service work (related to construction, installation, calibration, maintenance of the detector, or to software development or special analysis tasks): 80 KRubl per person (including travel) x 10 persons per year

800,000

4. Consumables related to the detector operation:

Gas for TPC and TOF - 1MRubl. per year (50%)

440,000

Tape for data storage - BM Jaguar 10PB per year (50%)

2,000,000

5. Stationary, printers for outside users offices:

100,000

Note: Item 3 could be covered by in-kind contributions. A list of in-kind contributions together with their description shall be provided by the CF MPD Manager in due time.

CF Implementation

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- Given the current composition of the Collaboration, the total number of eligible paying members is 108 (there are 3 institutions that have not provided the relevant information) assuming a cash contribution of 50,000 Rubles per eligible paying member, gives a total budget of 5.4 MRubles
- MPD project management shall approach all IB members and discuss with them whether they will contribute in cash or in-kind. Following that, appropriate invoices will be issued for each group.
- A list of in-kind contributions with a time stamp will be prepared by Project Manager in due time.
- JINR has an account where money can be transferred in Roubles, US\$ or Euros. Details in next slide.

Bank account

■ JINR has an account at the PJSC Bank FC Otkritie. Funds can be transferred to this account in in Rubles, US dollars and Euros. Please indicate for the **MPD Collaboration in any money transfer transaction**

■ To transfer funds in Russian rubles:

Recipient: Joint Institute for Nuclear Research

Calc. account: 40807810504420000001

Bank: Branch of the Central PJSC Bank "FC OTKRITIE", Moscow

BIK: 044525297

Corr. account: 30101810945250000297

■ To transfer funds in US dollars (USD):

Recipient: JINR

Score; 40807840704420100001

Bank: Bank Otkritie Financial Corporation (Public Joint-Stock Company), Moscow, Russia

SWIFT: JSNMRUMM

■ To transfer funds in Euro (EUR):

Recipient: JINR

Account: 40807978304420100001

Bank: Bank Otkritie Financial Corporation (Public Joint-Stock Company), Moscow, Russia

SWIFT: JSNMRUMM