

Seminar on the Chinese-Russian Cooperation within the NICA MPD-ITS Project Meeting on 24/07/2024

Participants:

- Arteché Dias Raul (JINR),
- Ceballos Sanchez Cesar (JINR),
- Dementiev Dmitry (JINR),
- Jiajun Qin (USTC),
- Le Xiao (CCNU),
- Murin Yuri (JINR),
- Rodríguez Alvarez Alejandro (JINR),
- Rufanov Igor (JINR),
- Sheremetev Aleksei (JINR),
- Shitenkov Mikhail. (JINR),
- Tsapulina Ekaterina (JINR),
- Voronin Aleksey (JINR),
- Xiangming Sun (CCNU),
- Yaping Wang (CCNU).

Meeting minutes:

- **Topics discussed,**
- Decisions made / [Next steps defined](#),

- **Round table discussion for defining the work plan with timelines and milestones:**

The following decisions were made concerning the further cooperation between JINR and China institutions during discussion:

- the collaboration is planned to be named as 'NICA MPD-ITS Consortium',
- the acting time for the consortium is 5 years (starting from next year after the current MoU is finished).
- The coordinator center in China will be the CCNU and within the Russian Federation will be the JINR. The co-leaders of the projects and their deputies will be Yuri Murin (leader for JINR), Cesar Ceballos Sanchez (deputy leader for JINR) while for CCNU the leader and deputy leader are still to be decided.
- The other institutions participating in the Consortium will have each one representative on the project structure for decision making and control.
- At least once a year there will be an in-person meeting of the Consortium to review the status of the different work packages. Whenever possible, it will be organized during the MPD collaboration meetings.
- The authorship rules should be different for conference presentations and paper publications.
For conference presentations all the institutions involved should be listed in the presentation
For paper authoring:

- R&D phase: In per-case basis will be decided by the group that produced the results and will be inform in-advance to the Consortium.
- Milestone papers (During serial phase): Consortium list of authors.
- Personnel interchange: Bidirectional visit/stages of specialist/students will be arranged. Traveling/daily expenses to be assumed by the sender institution while accommodation to be assumed by the receiving institution. First specialist to be sent to China will be Raul Arteché for participating in the MICA tests.
- Additional budget opportunities may be considered by both sides.

The following **upcoming tasks** to address the current issues were defined during the meeting:

- MICA chip:
 - (CCNU) Test the circuitry of MICA Chips.
 - (CCNU & JINR) To decide by November 2024 if beam time will be booked in Gatchina, based on the results from the previous point.
 - To compatibilized the MICA sensors with the existing assembly equipment. Including the chip markers for alignment in the ALICA machine and the necessary surface pads for bonding to the FPCs.
 - (CCNU): To clarify the way for JINR to perform the payments for the chip (payments could be performed in CNY currency or organized through some different bank account or any other options proposed by CCNU accounting to be compliant with Chinese governmental rules, should be considered).
- ITS mechanics:
 - (JINR) Mechanics for the Installation Container (IC) to be finalized by Dec. 2024 (MPD 1st Stage).
 - (JINR): Finish the preparations for the colling plant test stand by Dec. 2024.,
- Miscellaneous:
 - (JINR/CCNU) Updated TDR to be finalized by Dec. 2024.
 - (CCNU) Check the possibility of producing FPC's (Type A|B) and Power Buses in China.
 - (JINR/CCNU) Write NDA regarding the MICA chips.
 - (JINR / CCNU): Consider options to organize the channel of interchange for goods / materials / money to construct the MPD-ITS using joint efforts.