

BESIII Inner Tracker Upgrade Meeting **(July29, 2024) 14:00 - 16:00pm (Beijing Time)**

Meeting agenda and minutes

- indico page: <https://indico.ihep.ac.cn/event/23065/>
- Participants:
 - Present in the meeting room
Zheng Wang, Haibo Li, Qun Ouyang, Mingyi Dong, Huirong Qi
 - Online at ZOOM
Yifang Wang, Kejun Zhu, Giulio Mezzadri, Michela Greco, Gianluigi Cibinetto, Chenglong Jinlian, Hongliang Dai, Tingxuan Zeng, Stefano Graminia, Jing Dong

Schedule and Progress last week: Mingyi Dong

- Summary of the report:

1. The planned tasks last week and completion status

	plan	Status
1	Remove the valve box of the accelerator super-conducting magnet	East side: done West side : not yet
2	Remove Q1A, Q1B, ISPB on east side; Move Q1A, Q1B, ISPB on west side away from the IP region	East side: pulled out West side: not yet
3	Remove SCQ and its support structure on both side;	East side: pulled out West side: not yet
4	Remove depleted uranium shield on both sides	Not yet finished the preparation on east side
5	Prepare support structure for removing beam pipe	done

The planned tasks on the east side have been basically completed, but there are delays on the west side.

2. Preparation for tests of cooling and cutting the iMDC flange

- The tools and jigs for cutting have been ready.

- The tools for cooling are being prepared in the factory. Thermal conductive silicone and the chiller are ordered
 - Plan to have a review on August 12th
3. Plan for the next week
- Remove the valve box on west side
 - Move Q1A, Q1B, ISPB on west side away from the IP region
 - Remove Q1A, Q1B, ISPB on east side;
 - Remove SCQ and its support structure on both side;
 - Remove depleted uranium shield on both sides
 - Remove beam pipe
- Questions during the slides or planning:
 - Yifang asked the relatively status compared with the plan schedule?
 - Mingyi answered the east side has been done last, and the west side is postponed. The delay is due to the underestimation of the complexity of the cable connected to the magnets. Mingyi has already discussed with the facilities operation group. The operation will be speeded up, and the schedule for starting to remove the iMDC on 7th August will be caught up.
 - The cooling system test has been concerned by Haibo. Mingyi replied the system will be ready next week and testing will be conducted in the following few days.

Progress and plan of CGEM: Giulio

- **Summary of the report :**

1. The planned Progress last week

- 1). This week dedicated to improving the general status of the setup
 - Ground - Improvement in noise thanks to better connection of DLVPC
 - Tested uniformity with radioactive source
- 2). Discussion with MA Si for slow control
 - Update requirement document (last one from 2019)
 - For cooling, proposal to implement Hybrid solution
- 3). Test of DAQ with ZENG Tingxuan
 - Data taken for 2 hours from both GEM-DCs

2. Plans for week 29 July

- Italian colleagues will leave lab for a week (or so) - Starting from Wednesday morning
- Plan to operate the detector from remote with interlock in place to guarantee safety of operations
- Questions during the slides or planning:
 - Haibo asked how many Italian colleagues will be in IHEP during the August. Gigi replied there will be a shift from the Italian collaboration.
About the trigger test:
 - Mingyi reminded that the trigger test has to be done in the experimental hall, the trigger from ZDD trigger signal is ready now.
 - Tingxuan said if the data taking can be done with long time, maybe she can manage this test alone. In case not, she will need the experts from CGEM electronics group. Never the less, Tingxuan reminds that the interrupt problem has to be solved.
 - Gigi replied the responsible people Pawel will be solve the firmware coding.
 - Michela promised to organize a meeting including Pawel next week. She personally will be in IHEP from Thursday for a period of around 10 days.
 - Zheng reminds that due of the limit space, the CGEM cables from FEE to the readout modules need to be placed inside the cable tree, which may result in insufficient length of these cables.
 - Gigi replied that the HV-Cable of CGEM is 18 meters. The GEMROC will be placed directly on the barrel of Muon detector, and the length of the cables from FEE to the GEMROC is about 8 meters.
 - Mingyi suggested after Italian colleagues come to IHEP, we need to further check it on site
 - Mingyi asked the results about the cabling test?
 - Gigi said that the results would be shown at the end of the month.