# Progress and Plan

Mingyi Dong

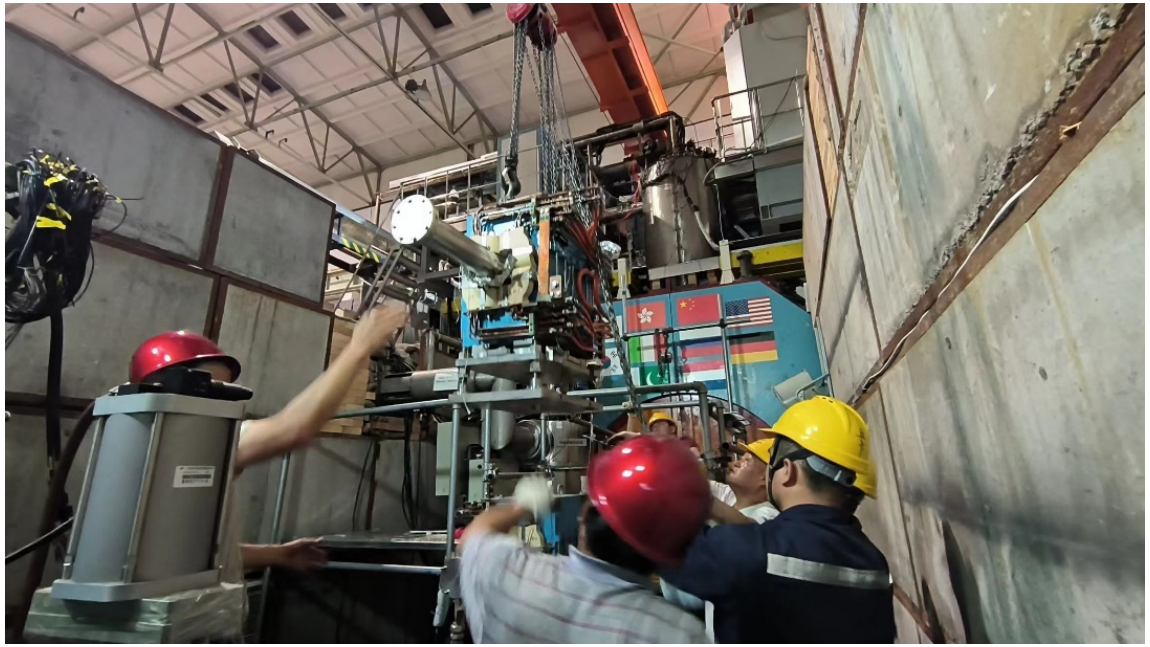
2024.7.15

# Progress in the experimental hall last week

| | Tasks | Time needed (day) | person in charge | Status |
|---|---|---|---|---|
| 1 | Disconnect the valve box of the accelerator superconducting magnet on both sides | 2 | Cryogenic system and Facilities Operation group | done |
| 2 | Remove the support structure for small angle luminosity detector and ZDD | 1 | Zheng Jianping | done |
| 3 | Remove the equipment （Q2、BV02，BH02）on both sides | 2 | Facilities Operation group (Jing Xiaoping) | done |
| 4 | Remove support structures of the magnets | 1 | Facilities Operation group (Jing Xiaoping) | done |
| 5 | Open the east and west doors of BESIII | 2 | Zheng Jianping | done |

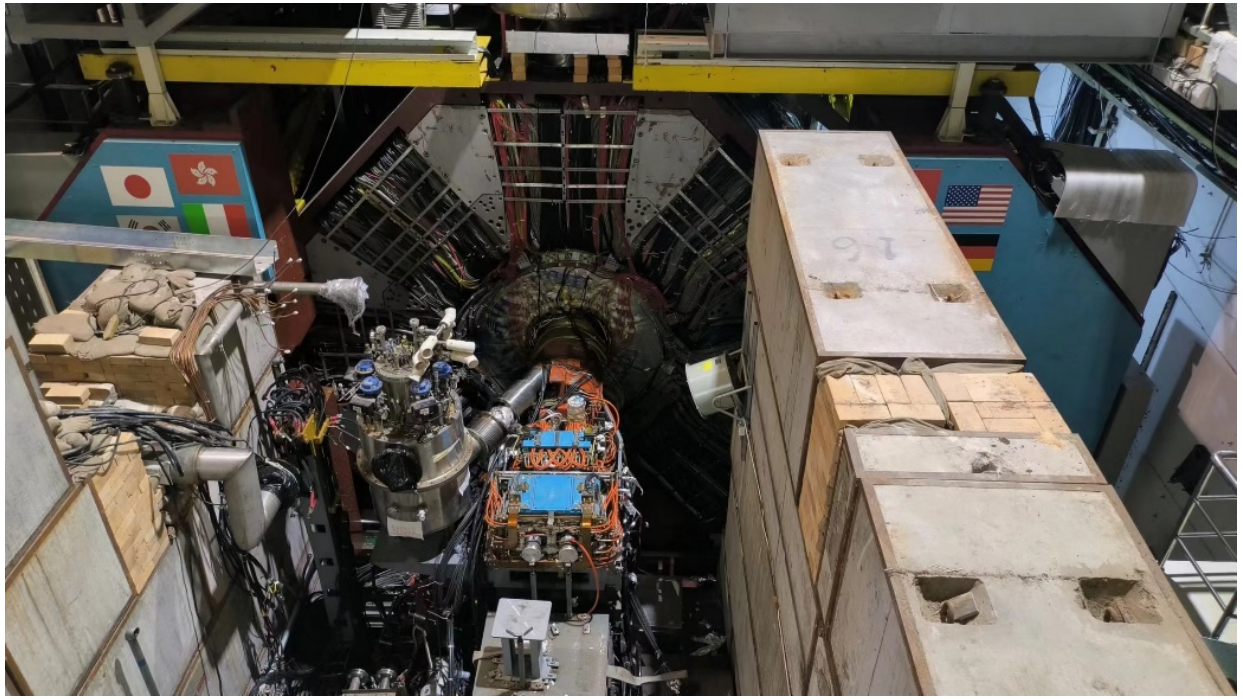
# Removal of  the equipment on both sides

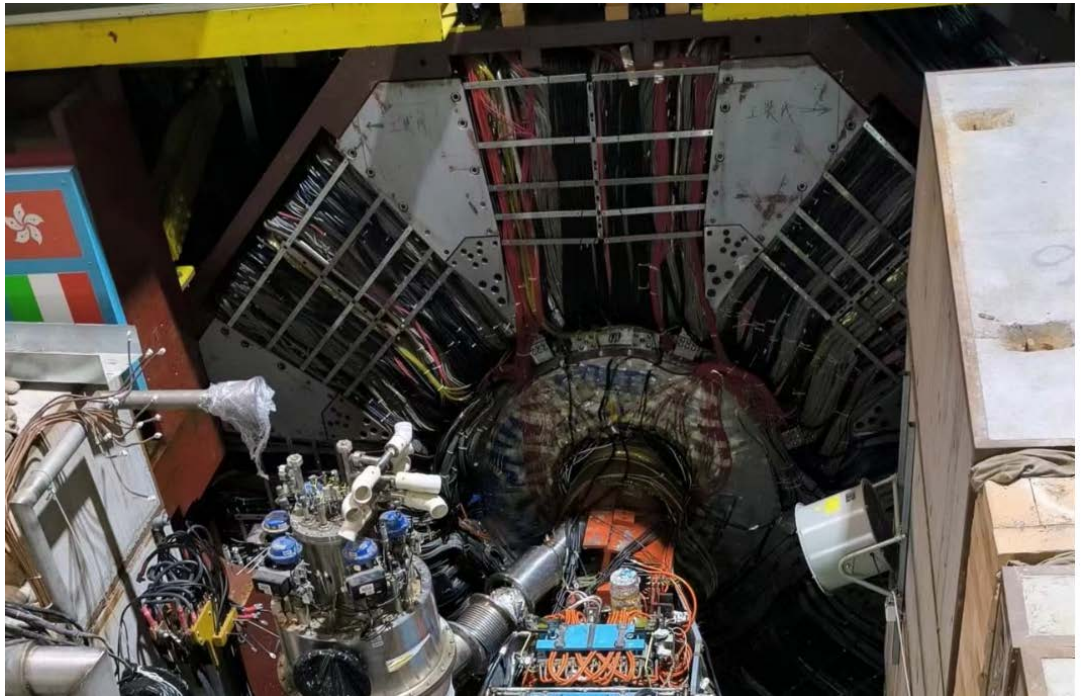
- Finished removal of  the equipment （Q2、BV02，BH02） from east and west sides
- Finished disconnection of  the valve box of the accelerator superconducting magnet on both sides
- Removed the support structure for small angle luminosity detector and ZDD, and Removed the support structures of the magnets



# Opened the doors of BESIII

- Opened the east and west doors of BESIII



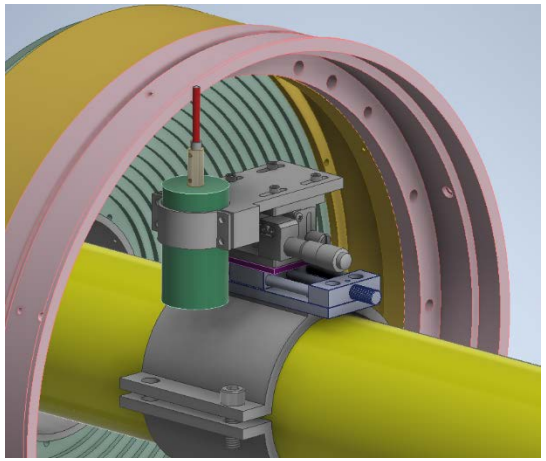


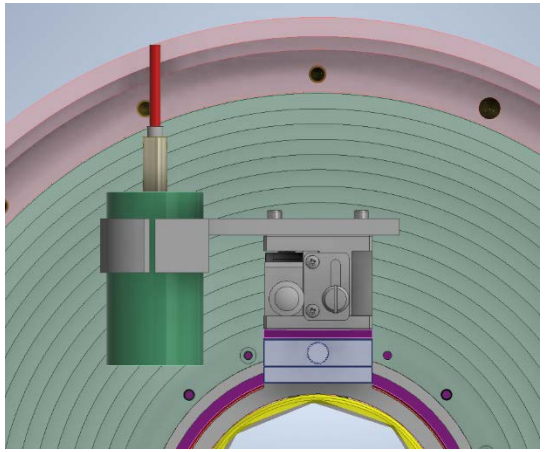
# Plan for next week

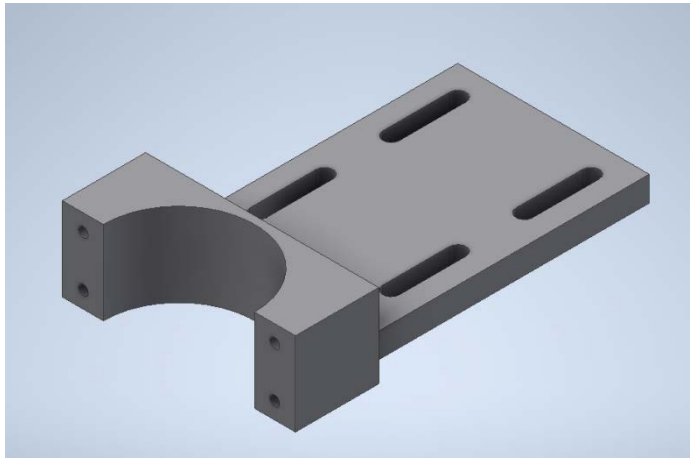
| | Tasks | Time needed (day) | person in charge |
|---|---|---|---|
| 1 | Remove the valve box of the accelerator superconducting magnet | 2 | Facilities Operation group (Jing Xiaoping) |
| 2 | Remove Q1A, Q1B, ISPB on east side; Move Q1A, Q1B, ISPB on west side away from the IP region | 2 | Facilities Operation group (Jing Xiaoping) |
| 3 | Remove SCQ and its support structure on both side; | 2 | Facilities Operation group (Jing Xiaoping) |
| 4 | Remove depleted uranium shield on both sides | 2 | Ji Quan, Du Junying, Facilities Operation group (Jing Xiaoping) |
| 5 | Remove beam pipe | 1 | Ji Quan, Zhang Yinhong, Facilities Operation group (Jing Xiaoping) |

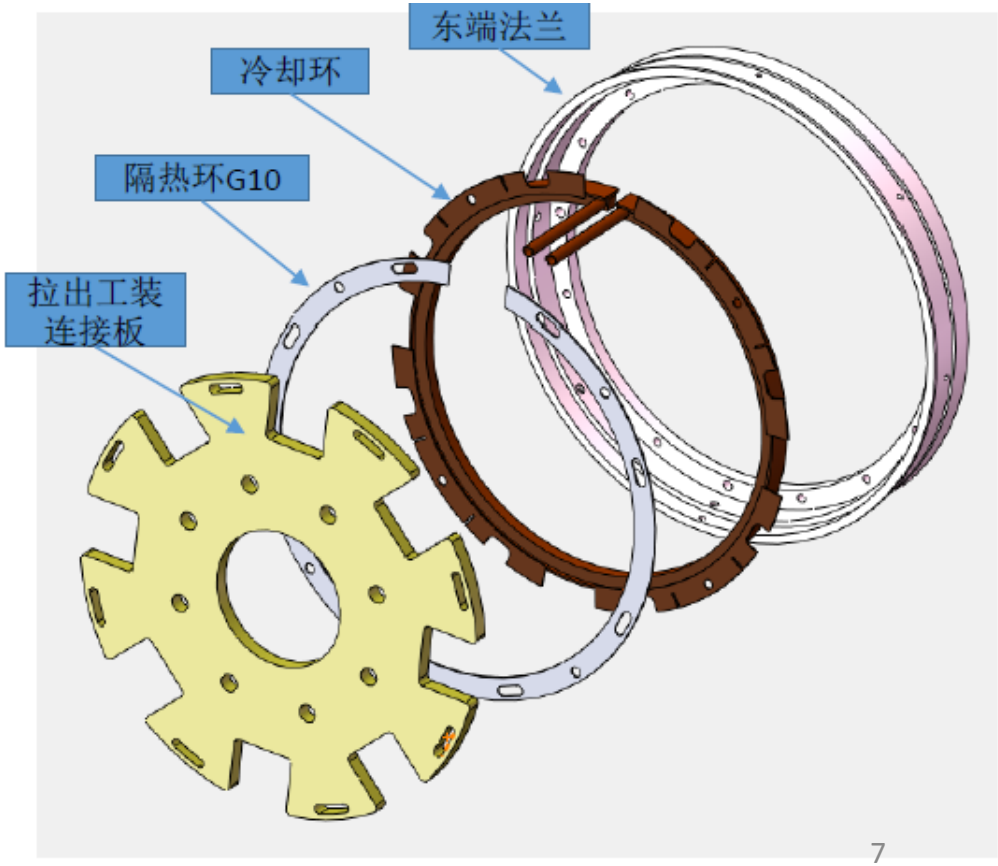
# Preparation for tests of cooling and cutting the iMDC flange

- Fix the motor vertically and cut the step of the flange with a small steel file. The jigs are being prepared in the factory.
- The design of tools for cooling the iMDC flange has been finished and will be manufactured in the factory







# Backup

# Schedule (may be updated each week)

| No. | tasks | Duration（day） | Start time and stop time | Sub-system involved |
|---|---|---|---|---|
| 1 | Removal of equipment of machine | | July 1- Aug. 6 | Utility, Small angle lum. Detector and ZDD, Beam pipe, slow control |
| 2 | Pull-out of EEMC | | | Utility, EMC, TOF, MDC, MUC |
| 3 | Removal of inner chamber（Operate simultaneously on both sides） | 51 | Aug. 7- Sep.7<br>Sep.8- Sep. 28 | MDC, MDC electronics, Gas, Mechanics, Laser Alignment group, Trigger, DAQ, Slow control |
| 4 | Installation of CGEM | 44 | Sep.29- Nov. 11 | CGEM group, MDC, MDC electronics, Gas, Mechanics, Laser Alignment group, Trigger, DAQ, Slow control |
| 5 | Recover EEMC | | Nov. 12-Dec.30 | Utility, EMC, TOF, MDC, MUC |
| 6 | Recover equipment of machine | | | Utility, Small angle lum. Detector, ZDD, Beam pipe, slow control, |
| total | | 180 days | July 1- Dec.30 | |

# Key tasks before extraction of iMDC and installation of CGEM

- CGEM Mock-up insertion test （Done, successful）
- Laser alignment preparation
- Extraction of the inner MDC is considered to be the most critical point. Continue inner chamber extraction test
  - Preliminary discussion on cooling the connecting flange
- Continue CGEM cosmic-ray test to gain more experience with the full detector
- CGEM integrated and tested with BESIII DAQ, trigger, and slow control