Progress and Plan

Mingyi Dong

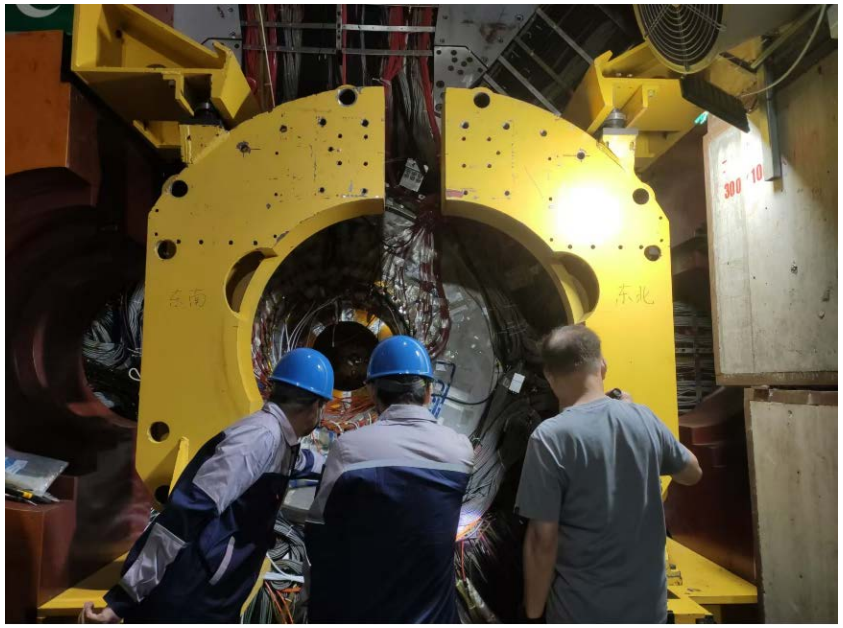
2024.8. 12

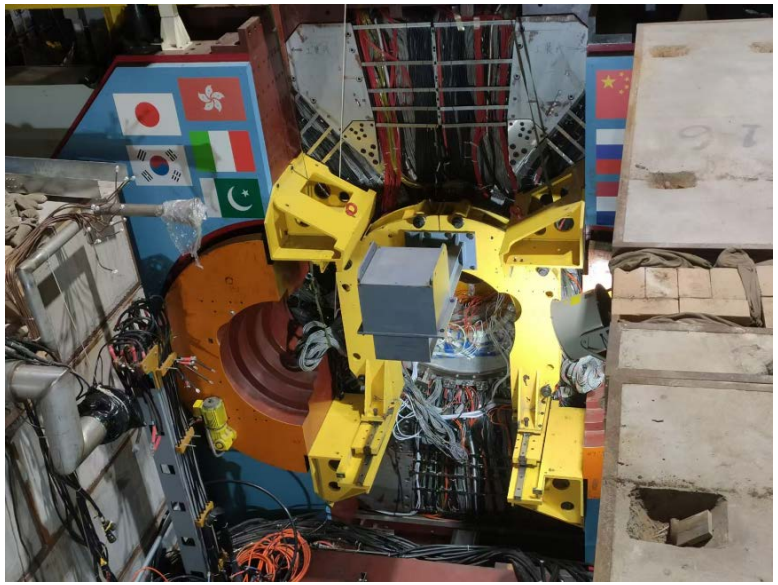
Progress in the experimental hall last week

	Planned tasks last week	Time needed (day)	person in charge	
1	Install the tools to pull out the EEMC	2	Facilities Operation group (Jing Xiaoping)	done
2	Remove or loose the cables of ETOF and EEMC	1	Zhi Wu, Boxiang Yu	done
3	Pull out the EEMC	1	Facilities Operation group (Jing Xiaoping)	done
4	Prepare the support structure for operation at MDC	1	Facilities Operation group (Jing Xiaoping)	done
5	Remove the cooling gas pipe, shielding plates, and support structure for shielding plates of the MDC	2	Mingyi Dong	done

Pulled out the EEMC on East side

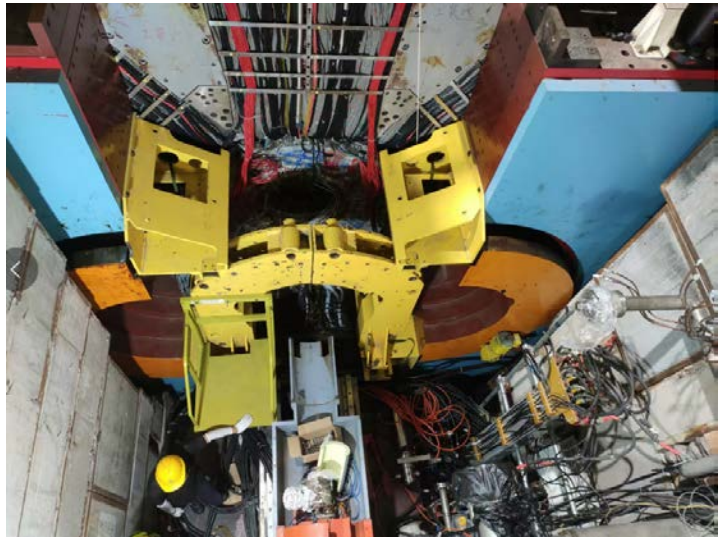
- On August 5,6,7， pulled out the EEMC on east side
  - Installed the tools to pull out the EEMC (August 5-6)
  - Removed or loosed the cables of ETOF and EEMC (August 5-7)
  - pulled out the east EEMC (August 7)

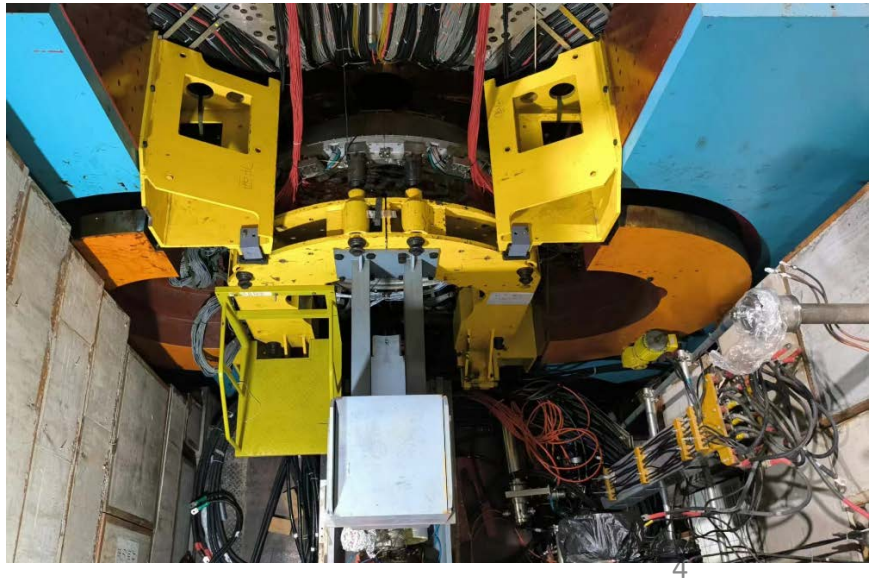




Pulled out the EEMC on West side

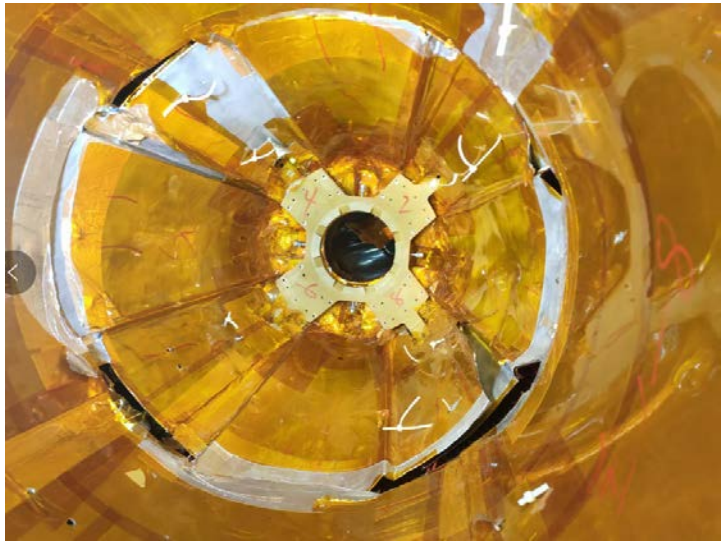
- On August 8,9 ,12， pulled out the EEMC on West side
  - Installed the tools to pull out the EEMC (August 8-9)
  - Removed or loosed the cables of ETOF and EEMC (August 8,9,12)
  - pulled out the west EEMC on August 12

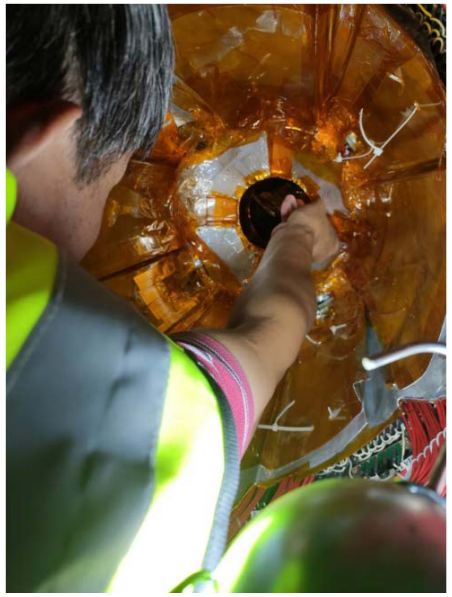


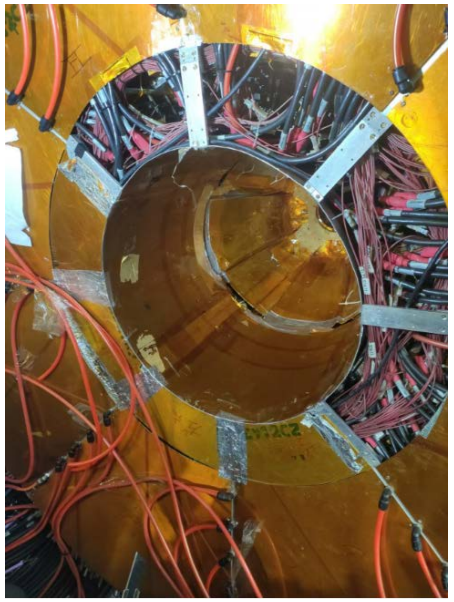


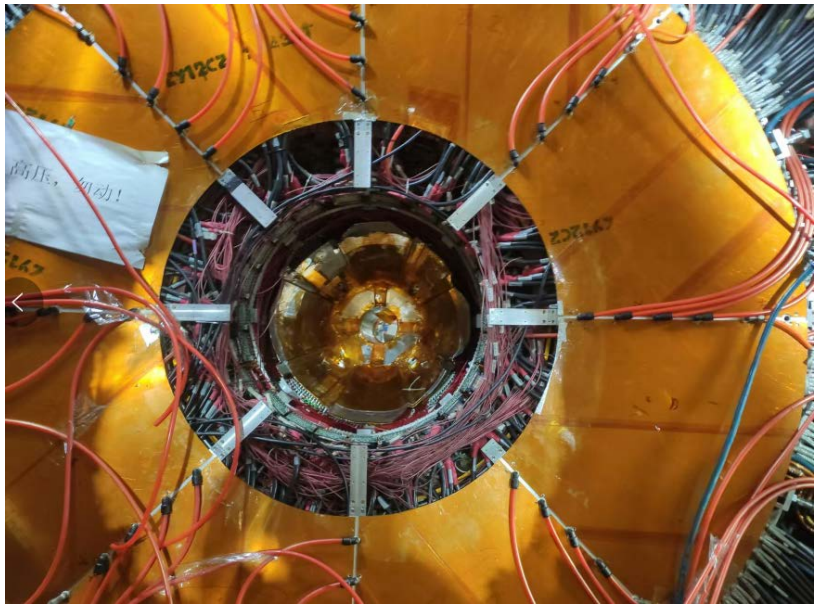
Removal of shielding plates of inner and stepped parts

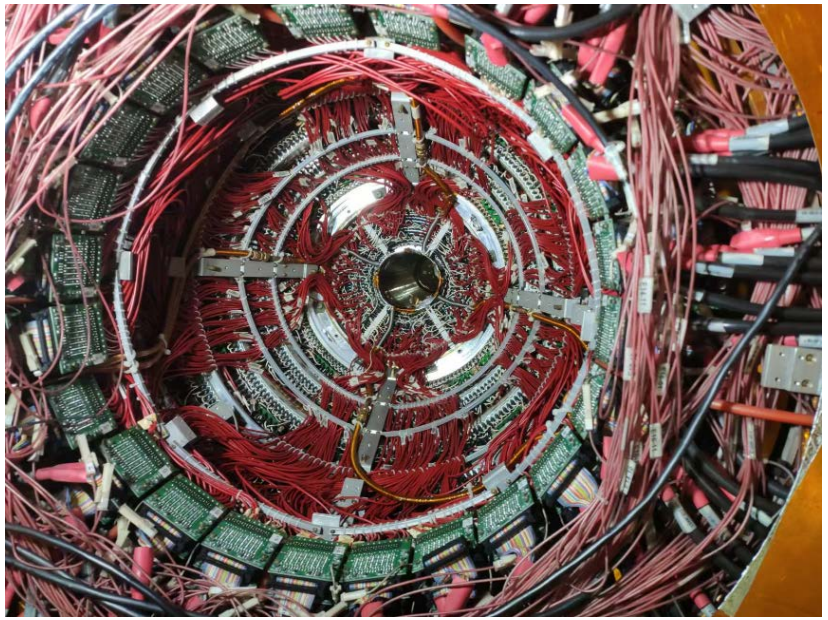
- On August 7, 8 (On east side)
  - Removed flange for fixing the beam pipe
  - Removed the shielding plates of inner and stepped parts





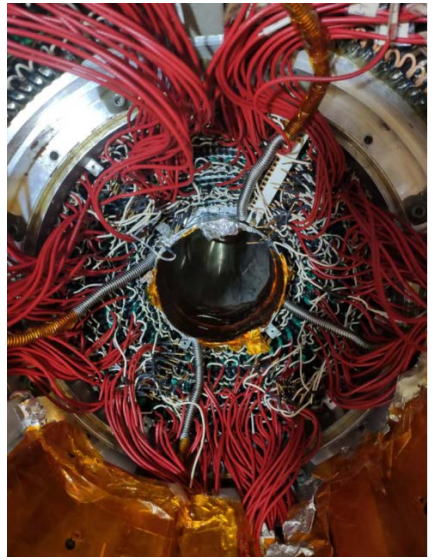


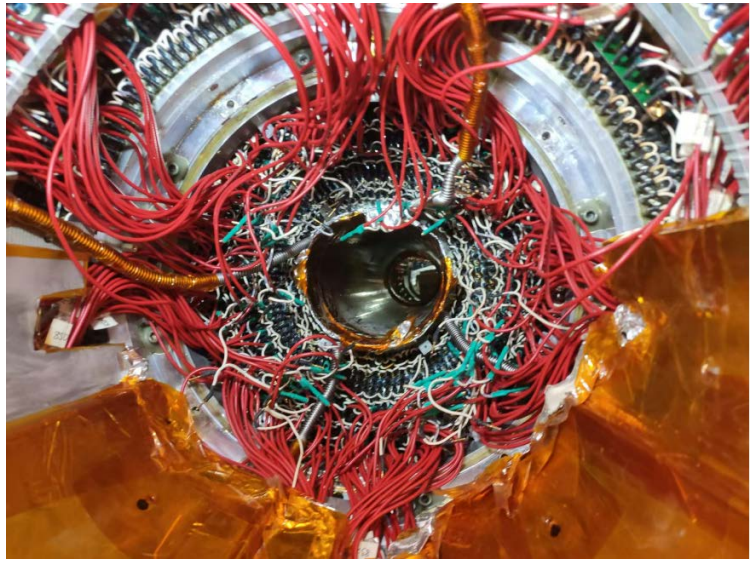


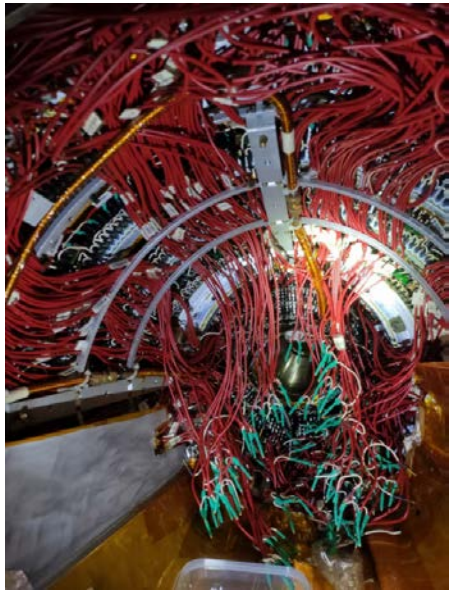


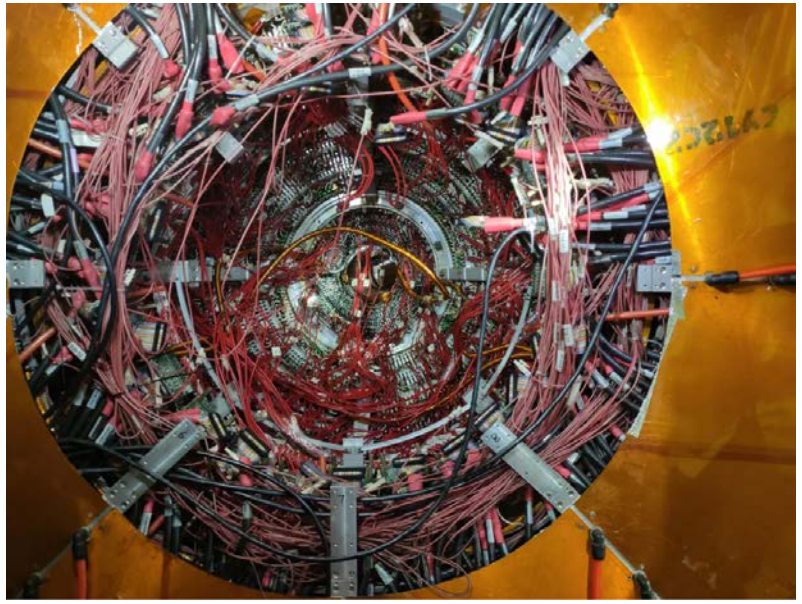
Removal of preamps and cables on east side

- On August 9-10
  - Disconnected signal cables of L2,L4,L6 from the feedthroughs
  - Removed the signal cables of L2,L4,L6 together with the preamps
  - Cut the signal cables of L8 at the preamps
  - Removed the preamps of L8







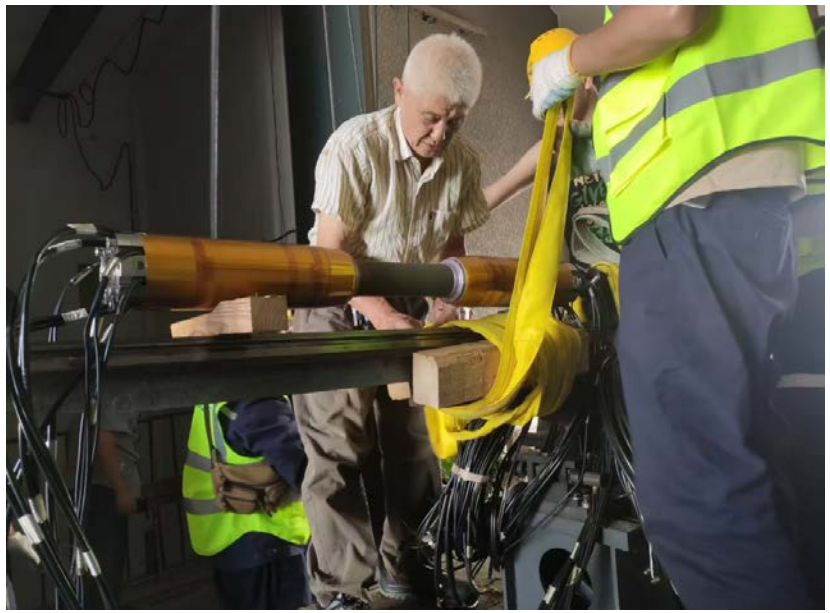


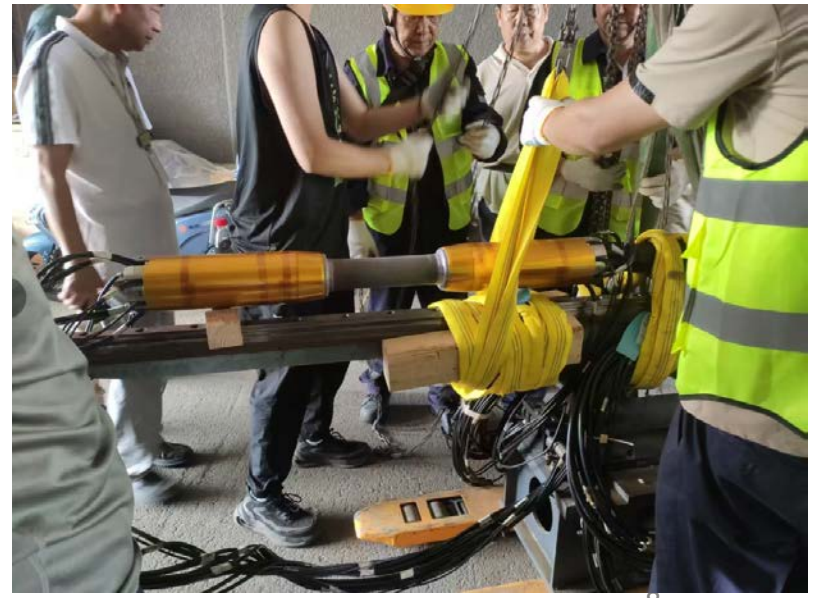
Removed depleted uranium shield from SCQ on east side

- On August 7
  - Removed depleted uranium shield from SCQ on east side
  - Temporarily stored in the source room of IHEP on August 8

Moved beam pipe to the testing room

- On August 6
  - Moved beam pipe from experimental hall to the testing room



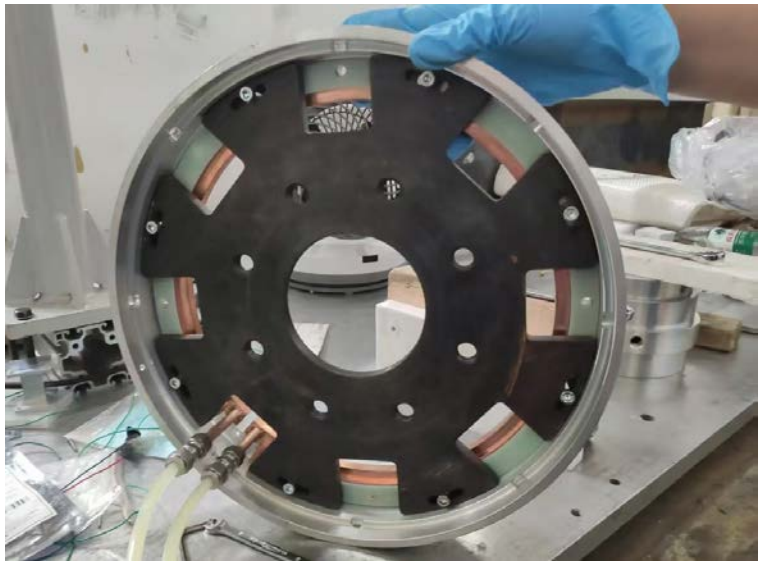


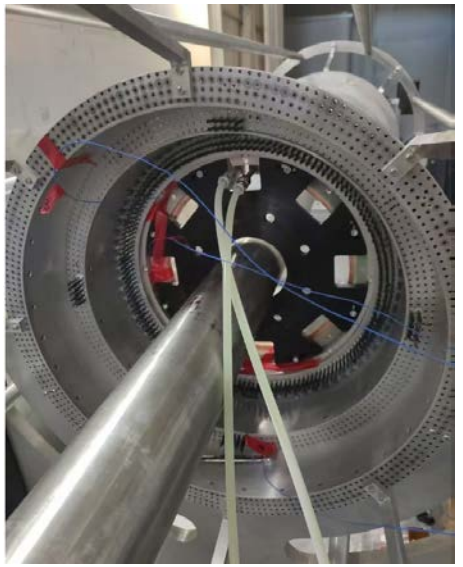
Plan for next week

	Tasks	Time needed (day)	person in charge
1	Install the shielding plates for protection (east end)	1	Mingyi Dong
2	Start to remove the glue on first step (east end)	7-?	Jing Dong
3	Prepare the support structure for operation at MDC on West side	1	Facilities Operation group (Jing Xiaoping)
4	Remove the shielding plates, and support structure for shielding plates on west side	2	Mingyi Dong
5	Remove the cables and preamps of inner chamber on west side	2	Mingyi Dong

Tests of cooling and cutting the iMDC flange

- The cutting tests are on going
- The tools for cooling are prepared, and testing is being conducted
- Will have a review of the scheme and procedures for pulling out the inner chamber on next Monday (August 19)





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 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