

Progress and Plan

Mingyi Dong

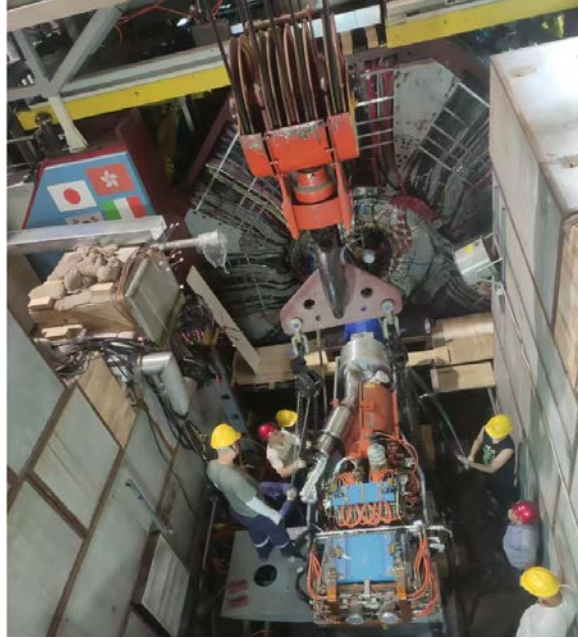
2024.8.5

Progress in the experimental hall last week

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

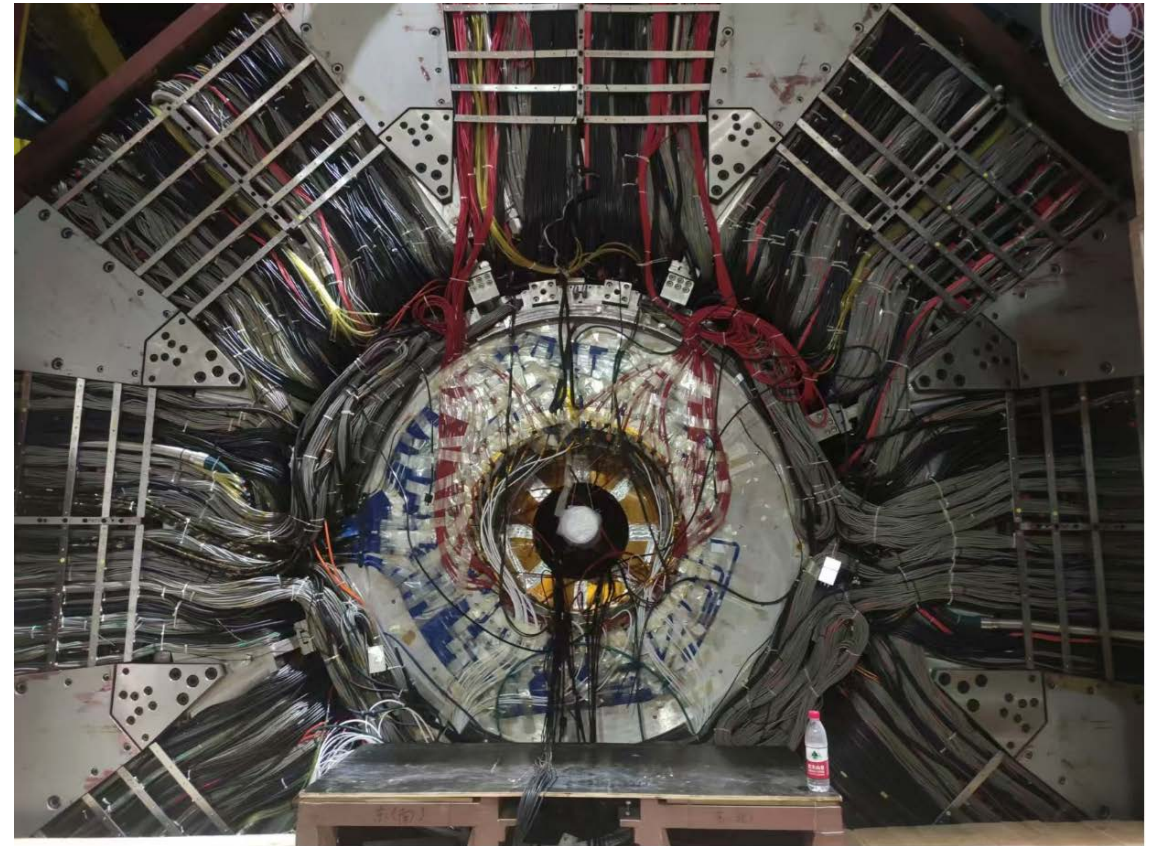
Removal of the magnets on east side (1)

- On July 29
 - Removed Q1A, Q1B, ISPB on east side
 - Removed SCQ and depleted uranium shield on east side



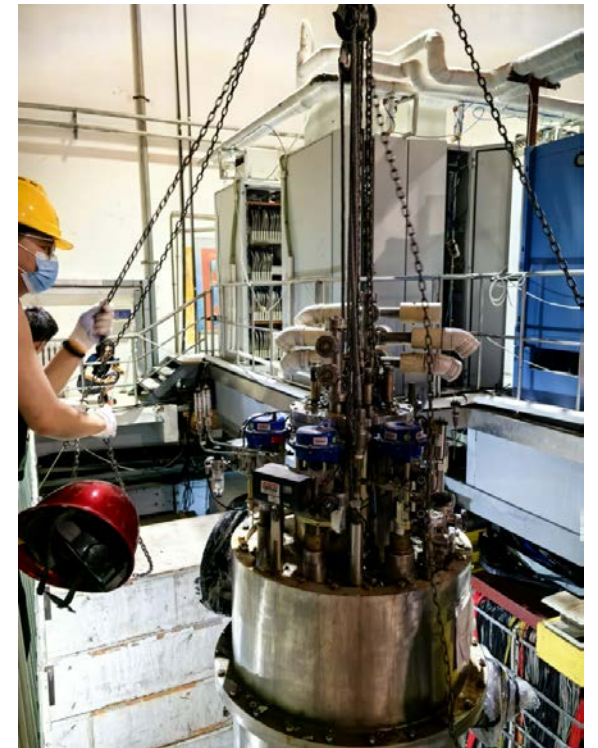
Removal of the magnets on east side (2)

- Photos after removal of the magnets on east side



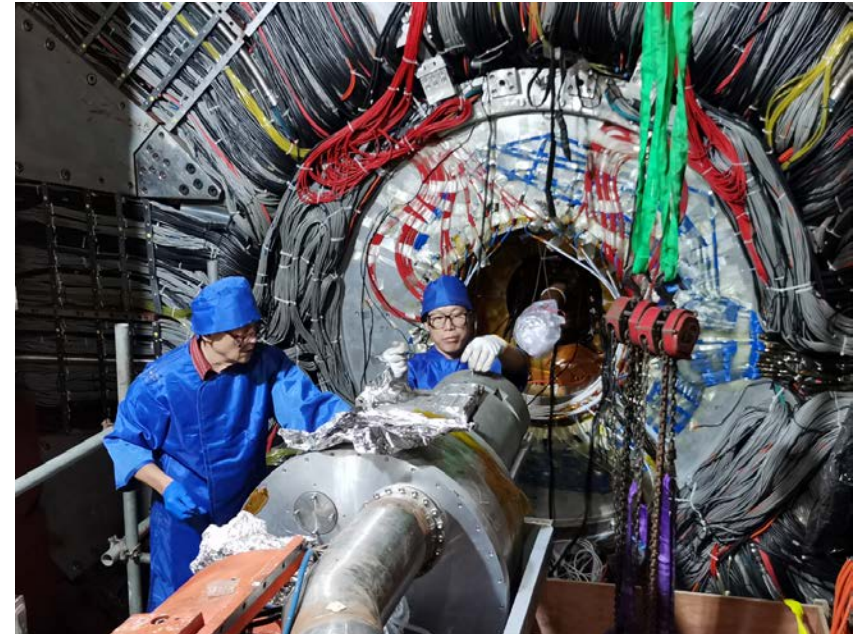
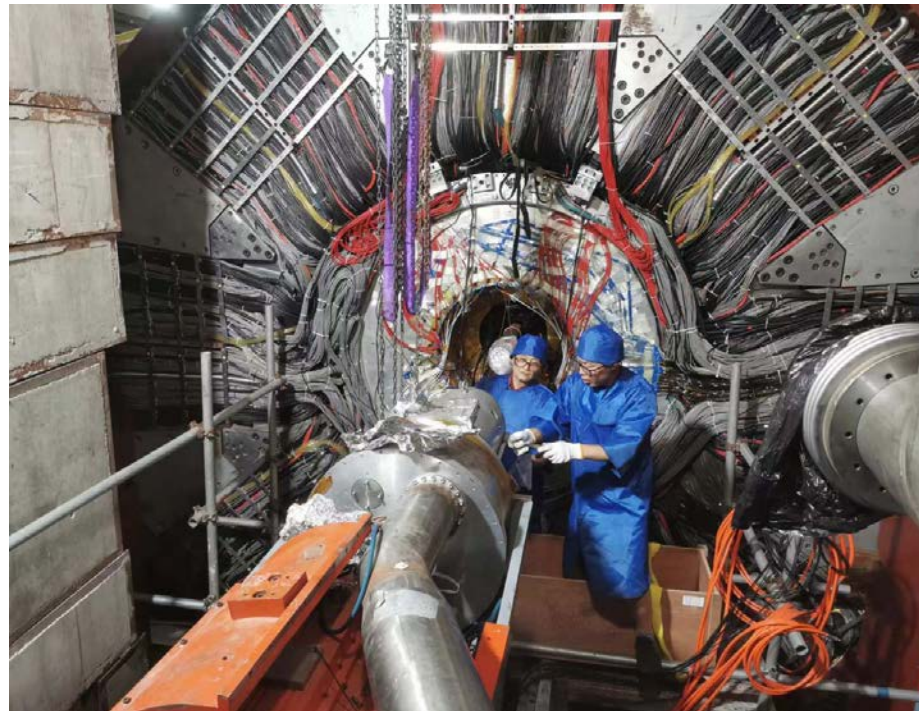
Removal of valve box on west side

- On July 30, removed valve box on west side



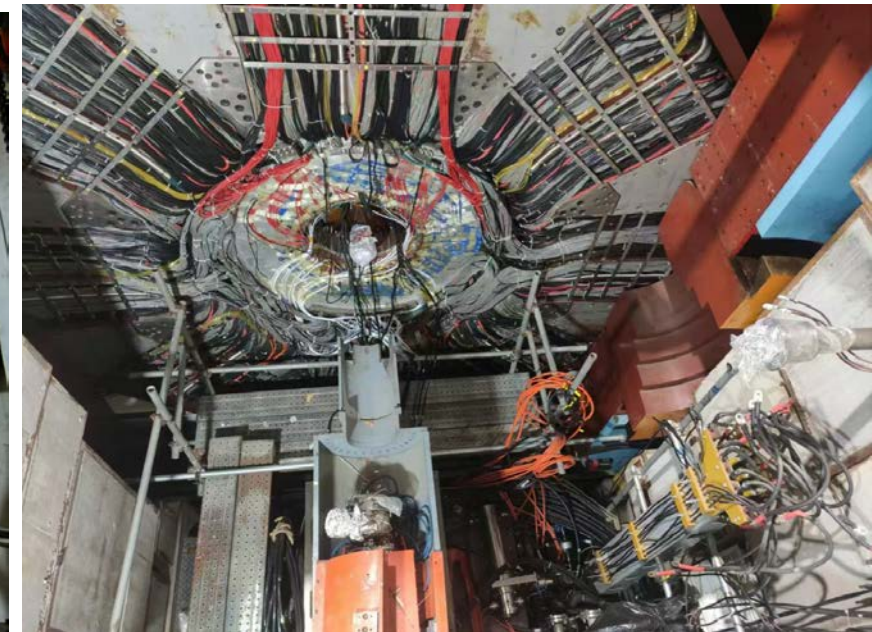
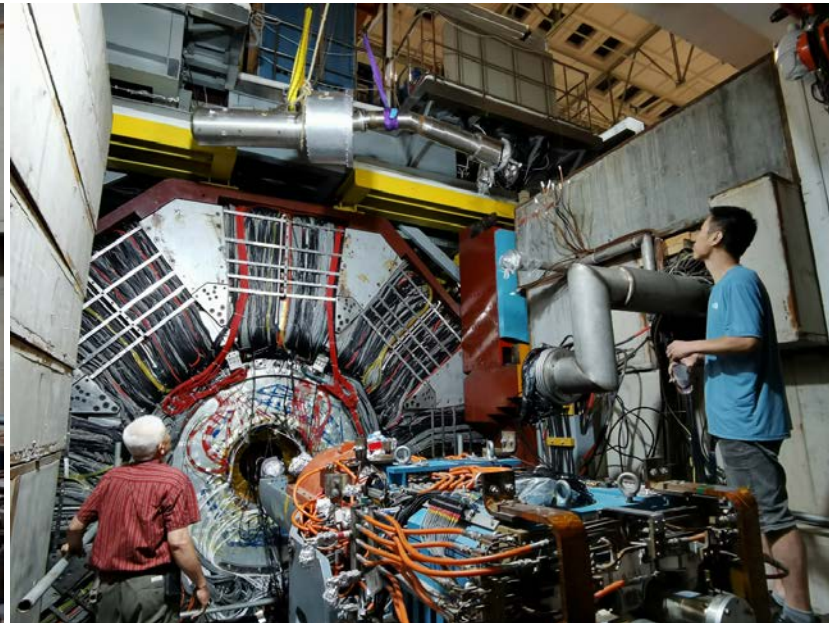
Pull out the magnets on west side (1)

- On July 31
 - Moved Q1A, Q1B, ISPB on west side away from the IP region
 - Removed depleted uranium shield on west side



Pull out the magnets on west side (2)

- On July 31
 - Removed SCQ on west side



Removal of vacuum pipe inside SCQ

- on August 1
 - Removed vacuum pipe inside SCQ (transition section of the beam pipe)

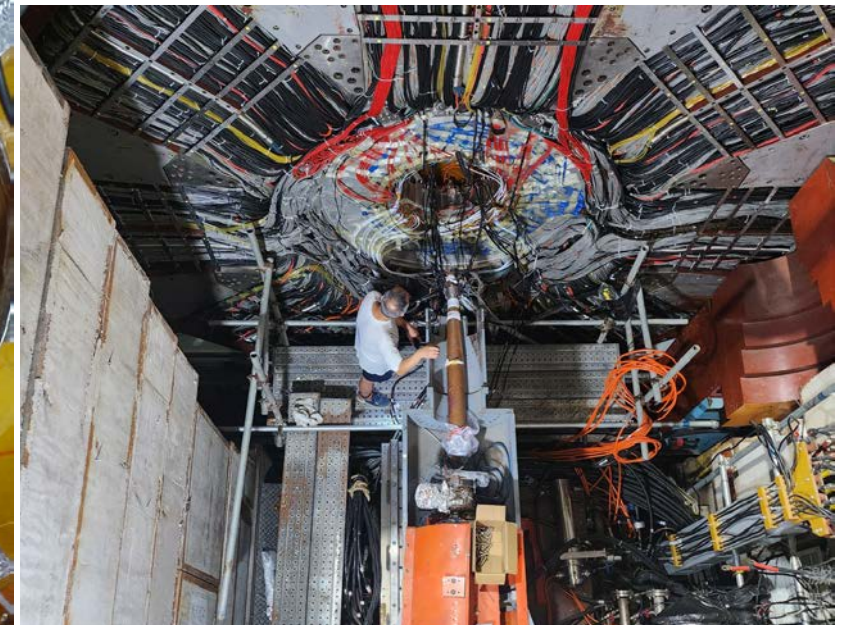
East side



East side

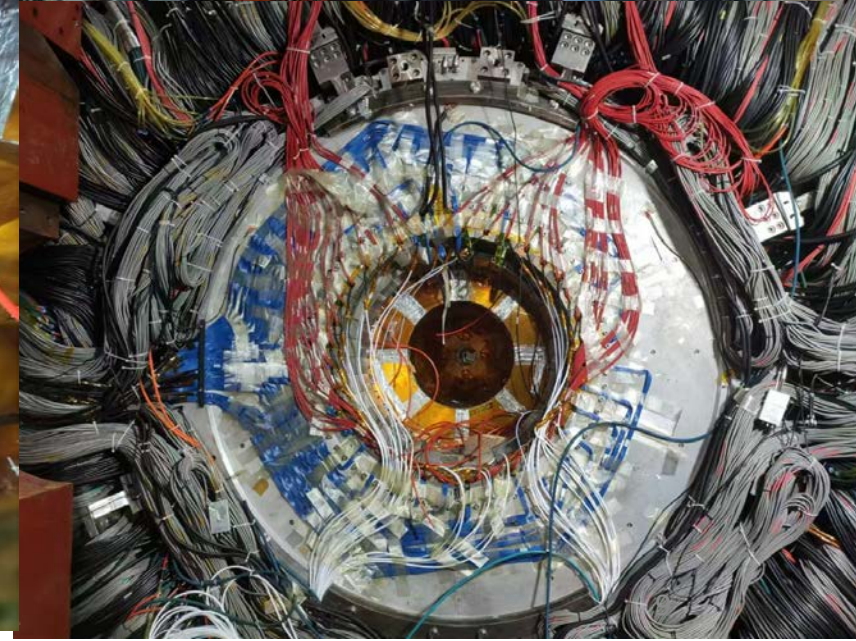
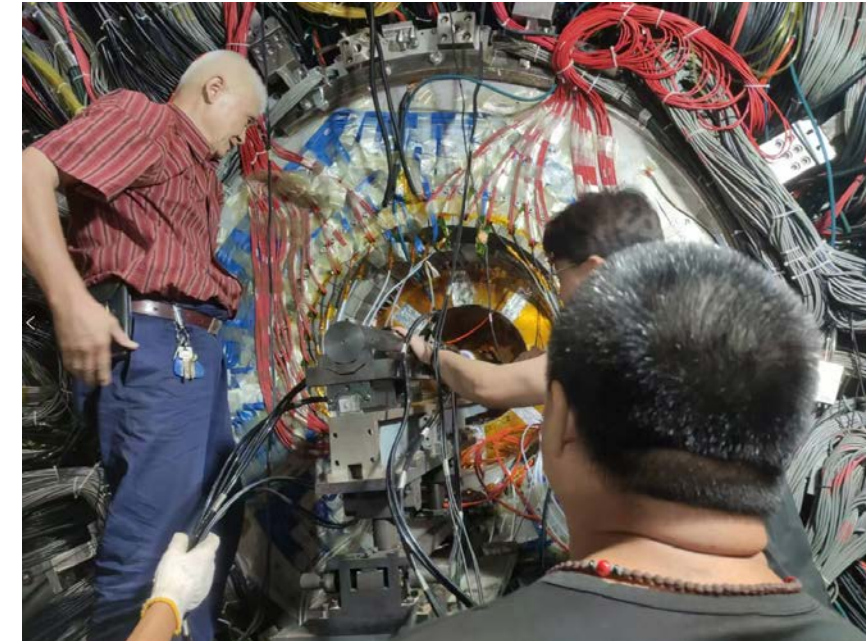
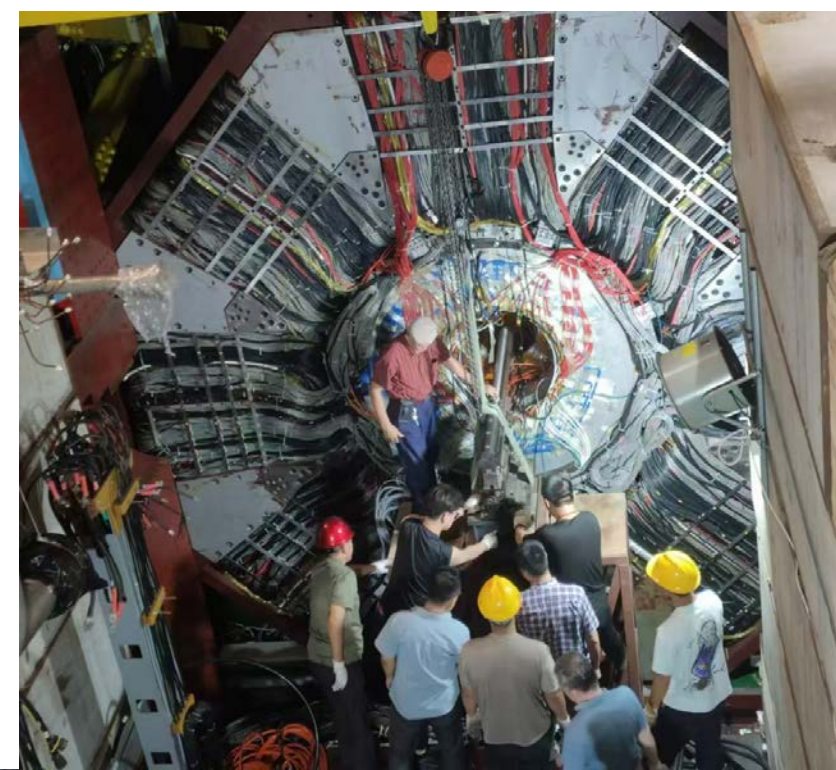


West side

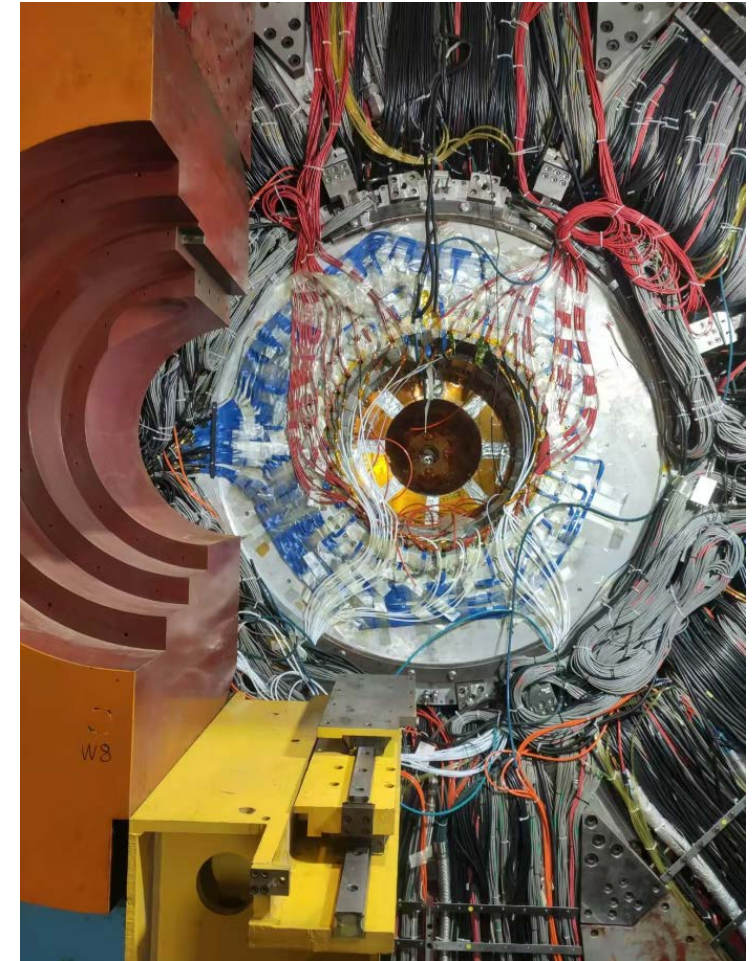


Removal of beam pipe

- on August 2
 - Removed beam pipe
 - Prepare to remove the EEMC



Preparation for pulling out EEMC on east side

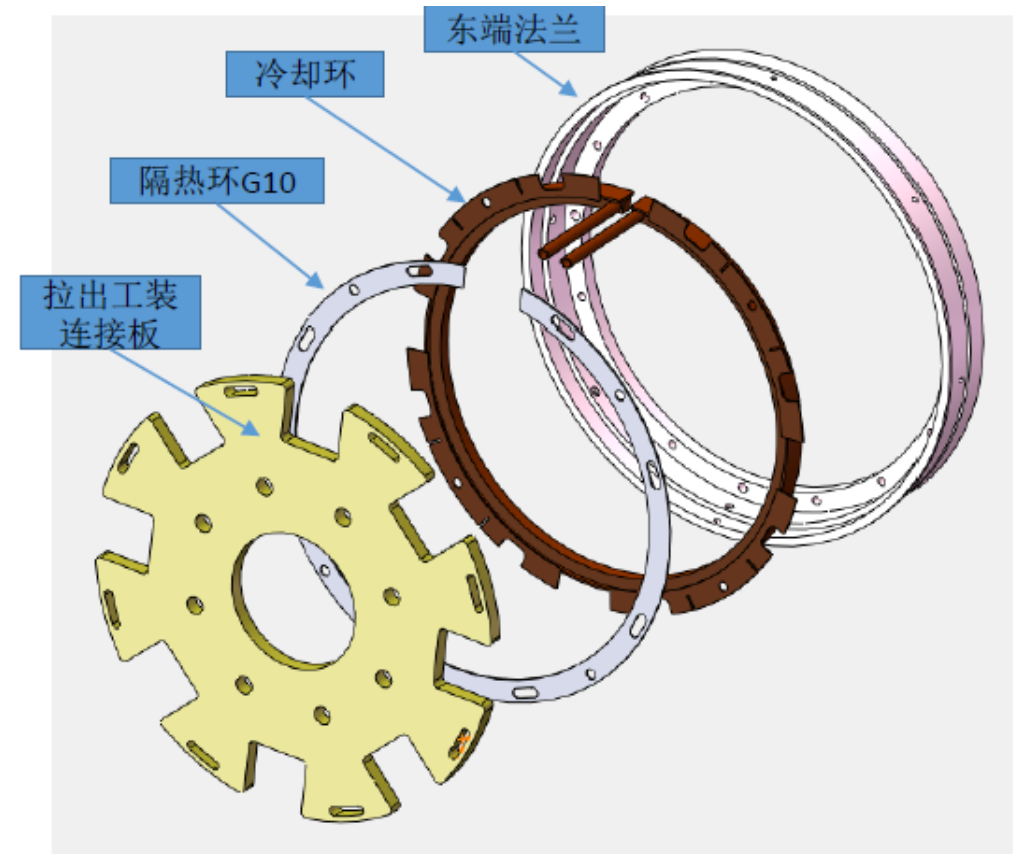
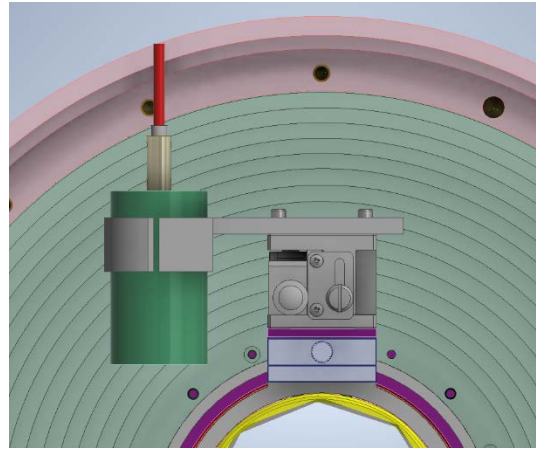
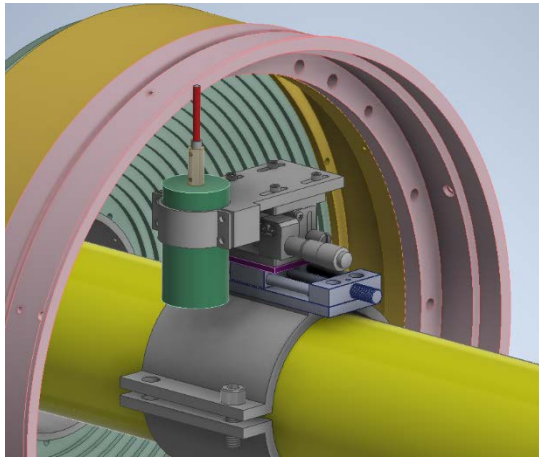


Plan for next week

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

Preparation for tests of cooling and cutting the iMDC flange

- The cutting tools was optimized
- The tools for cooling is almost ready.
- Testing will be conducted this week



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