

Installation Schedule

RIKEN/RBRC

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Schedule Baseline

Tasks	Nov 2022	Dec 2022	Jan 2023	Feb 2023	Mar 2023	Apr 2023
Magnet Mapping	3 wks					
Finish Install EMCal/Cable IHCAL		2 wks				
Install/Cable TPOT		6 wks				
Cable EMCal		6 wks				
Install/Cable TPC			6 wks			
Install/Bakeout Beampipe				3 wks		
Install/Cable INTT					3 wks	
Install/Cable MVTX						3 wks
Install MBD						2 wks
Ready for commissioning with beam						

Schedule Early Completion

Tasks	Nov 2022	Dec 2022	Jan 2023	Feb 2023	Mar 2023	Apr 2023
Magnet Mapping	3 wks					
Finish Install EMCal/Cable IHCal		2 wks				
Install/Cable TPOT		4 wks				
Cable EMCal		4 wks				
Install/Cable TPC			3 wks			
Install/Bakeout Beampipe				2 wks		
Install/Cable INTT				2 wks		
Install/Cable MVTX					2 wks	
Install MBD					1 wk	
Ready for commissioning with beam						

Milestones January 2023

Red=Critical path or <4 days to CP
 (C)=Complete
 (E = Expected)
 ()=% complete
 Needs update

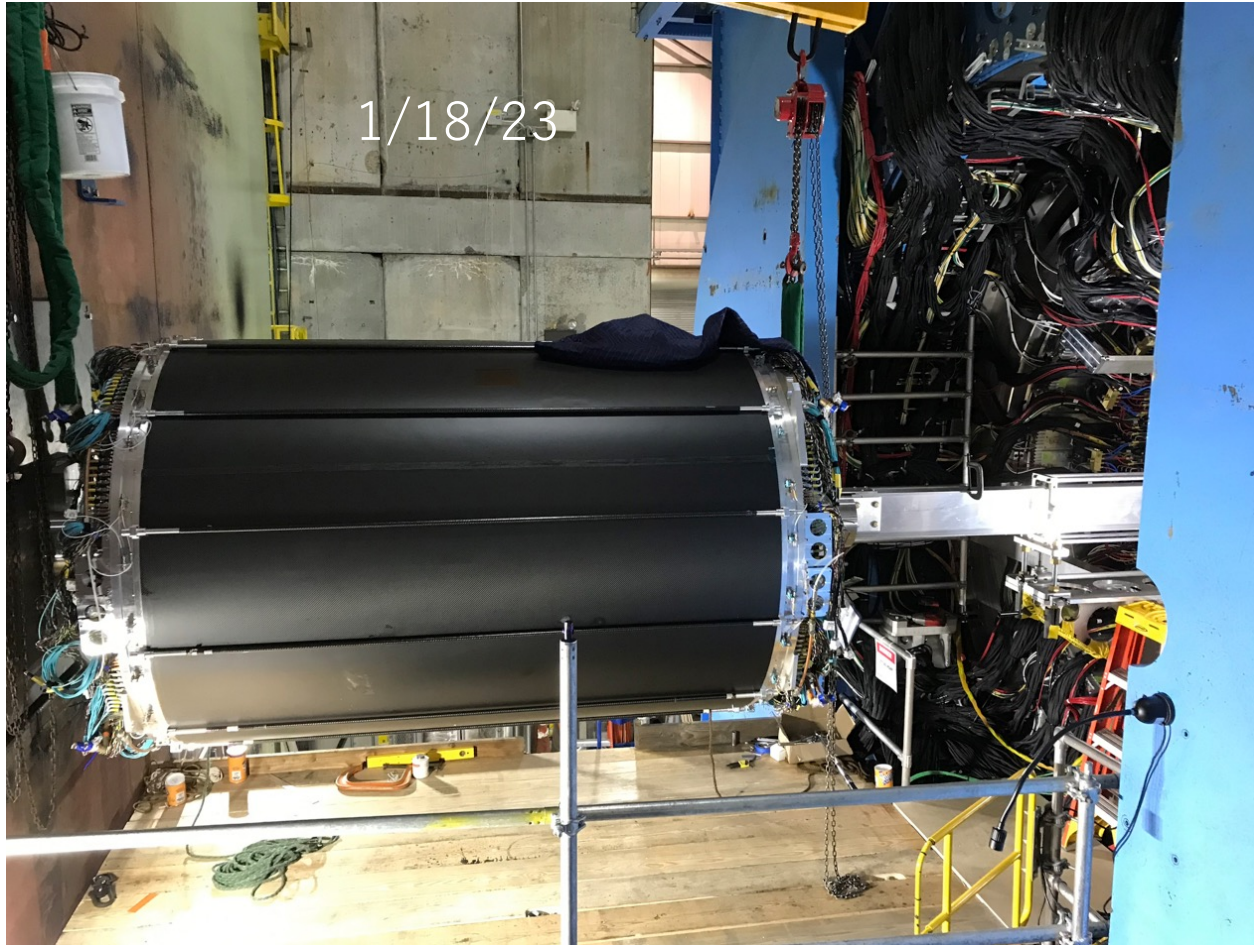
Week Jan 2-8	Week Jan 9-15	Week Jan 16-22	Week Jan 23-29
- I: Complete installation electronics racks on carriage, Boose (PO) (C) TPOT: complete on-detector cable installation (C), tests cDAQ: Hugo/Takao (PO) (E=Jan9-15) EMCAL: Complete tests with cDAQ, Stoll (PO) (initial tests before TPC installation) (E=Jan 9-15) Gas&Cooling: TPC cooling system panel fabrication (30%), building will start Jan 3/4 Pisani/Pontieri (PO) (E=Jan 24) ES&H: LESH approval of USI and ASE (Lab ESH committee) (C)	- I: Complete installation of rack cooling water middle platform. Vasquez (PO) (C) - I: Off Carriage Water - Bridges to on-carriage panels, Albanese (C-AD) (10%) (E=Feb 22 TBC) I:GAS: TPC Laser N2 panel fabrication (50%), Pisani/Pontieri (PO) (E=Jan 30) ES&H: ES&H ALD request approval to BSHO (on schedule)	Magnet Checkout After Power Testing: Yip (C) - I: Complete Rack Cooling water, upper platform: (92%-needs TPC rack) Vasquez (PO) (on schedule) TPC: transport to 1008 TPC: Complete installation TPC (Mechanical), Cacace, (PO)	- I: Complete installation AC power to Racks - Upper platforms (96%-needs TPC rack) Vasquez (C-AD) Checkout: In-Rack Safety System Check: Haggerty (PO) - I: Test global interlock system: Vasquez (PO) (E=Feb 5) I:GAS: TPOT Ar-Isobutane panel fabrication, Pisani/Pontieri (PO) (TBC) - I: Test global interlock system, Vazquez (PO)

1/19/23 TPC Installation was announced. Looks like on schedule

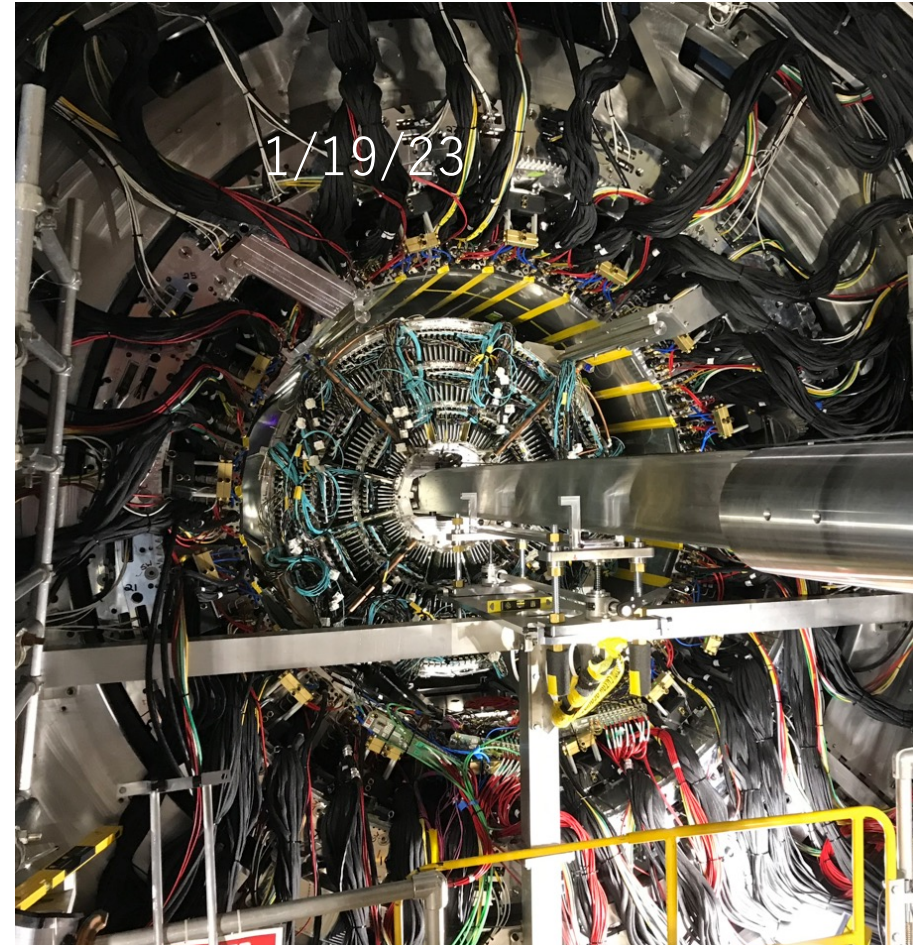
Today

sPHENIX Installation Status

1/18/23



1/19/23



TPC Installed into sPHENIX Detector

1/20/23

Fortnightly Meeting (EOB)

Milestones February 2023

Red=Critical path or <4 days to CP

(C)=Complete

Week Jan 30-Feb 5	Week Feb 6-12	Week Feb 13-19	Week Feb 20-26
GAS: TPC & TPOT gas distribution Panels installed: Pisani/Pontieri (PO) (TBC) TPC: Complete TPC Cables and Services (gas/cooling)& cDAQ, Hemmick (PO) I:GAS: INTT N2 panel fabrication, Pisani/Pontieri (PO) I: Start hook up all new chillers (4 EMCal, CDU300, 2 INTT, 3 MVTX), Pisani/Pontieri (PO) ES&H: Approval revised ASE (BHSO)	I: complete installation off-platform safety systems (incl. VESDA part safety system), Albanese (C-AD), (99%) (C) Beam pipe: Install Central Beampipe (mechanical), Feder, C-AD – TBC	INTT: Complete INTT Installation fixtures and tests, Cacace (PO) I:GAS: MVTX N2 panel fabrication, Pisani (PO) Beam pipe: pumped-down and leak checked, Feder (C-AD), * cDAQ=checks counting house DAQ	Checkout: Check safety systems, interlocks, smoke, fire detectors, Filler (C-AD), MVTX: cooling System Panel Fabrication, Pisani (PO) I: Power up and load test all old chillers, Pisani/Pontieri (PO) - new Beam pipe: bakeout complete, Weiss/Feder (C-AD)

Milestones March 2023

Red=Critical path or <4 days to CP

(C)=Complete

Week Feb 27- Mar 5	Week Mar 6-12	Week Mar 13-19	Week Mar 20-26	Mar 27-April 2
• I: S346246 Complete VESDA north/south solenoid - piping (excluding sEPD area), Vasquez (C-AD) (on schedule) • I:GAS: MBD dry compressed air panel fabrication,(20%) Pisani/Pontieri (PO) E=March 16 • ES&H: NPP presentation of readiness of IRR to IRMC, Flillier, NPP	• INTT: Install INTT (mechanical), Cacace (PO)	• INTT: Install INTT Cables and Services & cDAQ*, Noucier (PO) • MVTX: Install MVTX Support, Kelsey (PO) • ES&H: complete IRR (close out report from IRR team), Flillier (C-AD)	• Beam pipe: Remove beampipe Temporary Support, Albanese, (C-AD) • MVTX: Install Half-Barrel 1, Kelsey (PO) • MVTX: Install Half-Barrel 2, Kelsey (PO)	• MVTX: Install MVTX Remaining Cables and Services , Liu (PO) • MVTX: cDAQ tests, Liu (PO) • MBD: Install MBD Installation fixtures, Pontieri (PO) • I: Complete hook up all new chillers (4 EMCal, CDU300, 2 INTT, 3 MVTX), Pisani (PO)/Pontieri –new • ES&H: Close IRR pre-start items, Flillier (C-AD)
* cDAQ=checks counting house DAQ				

Milestones April 2023

Red=Critical path or <4 days to CP
(C)=Complete

April 3-9	April 10-16	April 17-23	April 24 – May 1
• MBD: Install Min Bias (mechanical) & cDAQ*, Chiu (PO) • MBD: cDAQ* tests, Chiu (PO) • sEPD: Install sEPD (mechanical), Reed (PO) • sEPD: Cables & cDAQ tests*, Reed (PO) • IR: Install shield wall, Albanese (C-AD) • ES&H: IRR committee approval for operation, IRR team	• GAS: MBD gas distribution Panels installed: Pisani (PO) • ES&H: Approval for sPHENIX operations, BHSO • sPHENIX Ready for beam, ALL	RHIC Cool down Cosmic Magnet ON?	• Start of sPHENIX commissioning with beam 
* cDAQ=checks counting house DAQ			

sEPD: if ready on time and it does not interfere with schedule