

# Controls SW Group Meeting

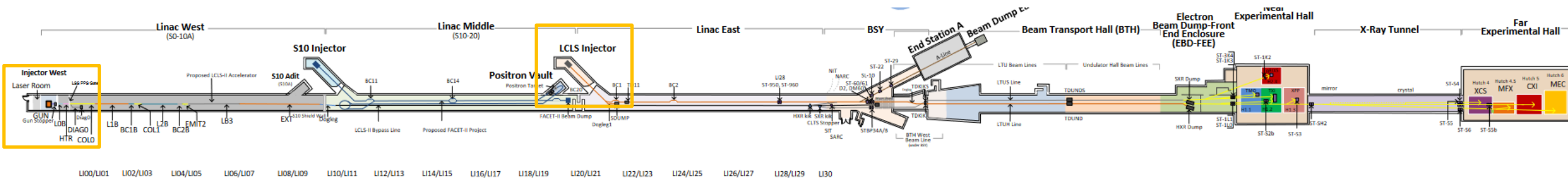
May 25th, 2023

T. Summers

# State of the Accelerators

## We made beam!

- Beam from SC Gun and getting Cryomodules ready for beam started last Friday
  - Work through the weekend on beam to DIAG0/COL0 for injector studies and optimization
  - 10 Hz beam to BSY, linac phasing and tuning
- This week:
  - Thursday – Plan to restart Cu Gun, verify can generate 250 pC charge



# State of the Accelerators

## Looking further...

- Short PAMM June 1-2, then resume SC Linac commissioning
  - Also run up LCLS Cu linac RF to check systems and identify any needing repair

- CATER buckets:

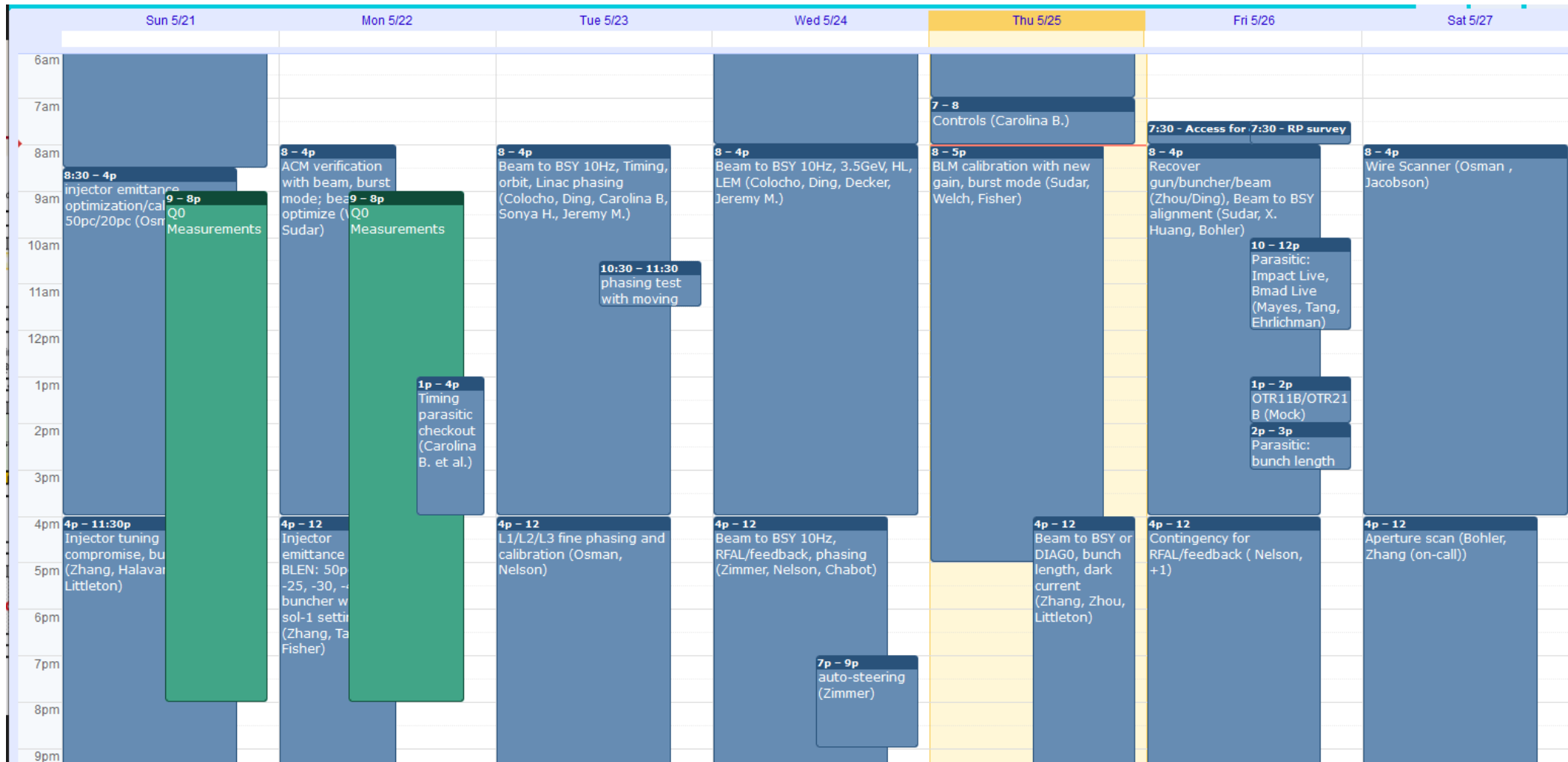
<u>Start Date</u> ↓	<u>End Date</u>	<u>Program</u>	<u>Machine Status</u>	<u>Description</u>
10/01/2023	11/15/2023	All Accelerators	Downtime	2023 Fall downtime (LCLS SC, FACET, LCLS Cu)
06/12/2023	06/30/2023	All Accelerators	Downtime	June downtime for K-Sub outages.
06/01/2023	06/02/2023	All Accelerators	PAMM	6/1 single-day PAMM
01/30/2023	04/30/5000	FACET-II	Downtime	FACET Linac Startup Tasks
01/01/2023	04/30/5000	AOSD LCLS		LCLS Cu Linac Startup Tasks
01/01/2023	04/30/5000	Linac West	Downtime	LCLS SC Linac Startup Tasks

- BIG NEWS! Machines off starting June 14, lasting about 4 weeks
  - Exception – NC restart after 2 weeks, resuming June 26
  - Time for all remaining Ksub repairs and sector power outages
  - Controls – all remaining MC already off. Need to plan for CAMAC, VME, and ATCA. Timing will likely be down/intermittent
- When we resume, it will be with Cu beam through undulators to verify that all still works
  - Then we switch over to sending SC beam through them and achieve first light! Champagne will be served.

# SC Linac plans – this week

Find the schedule here:

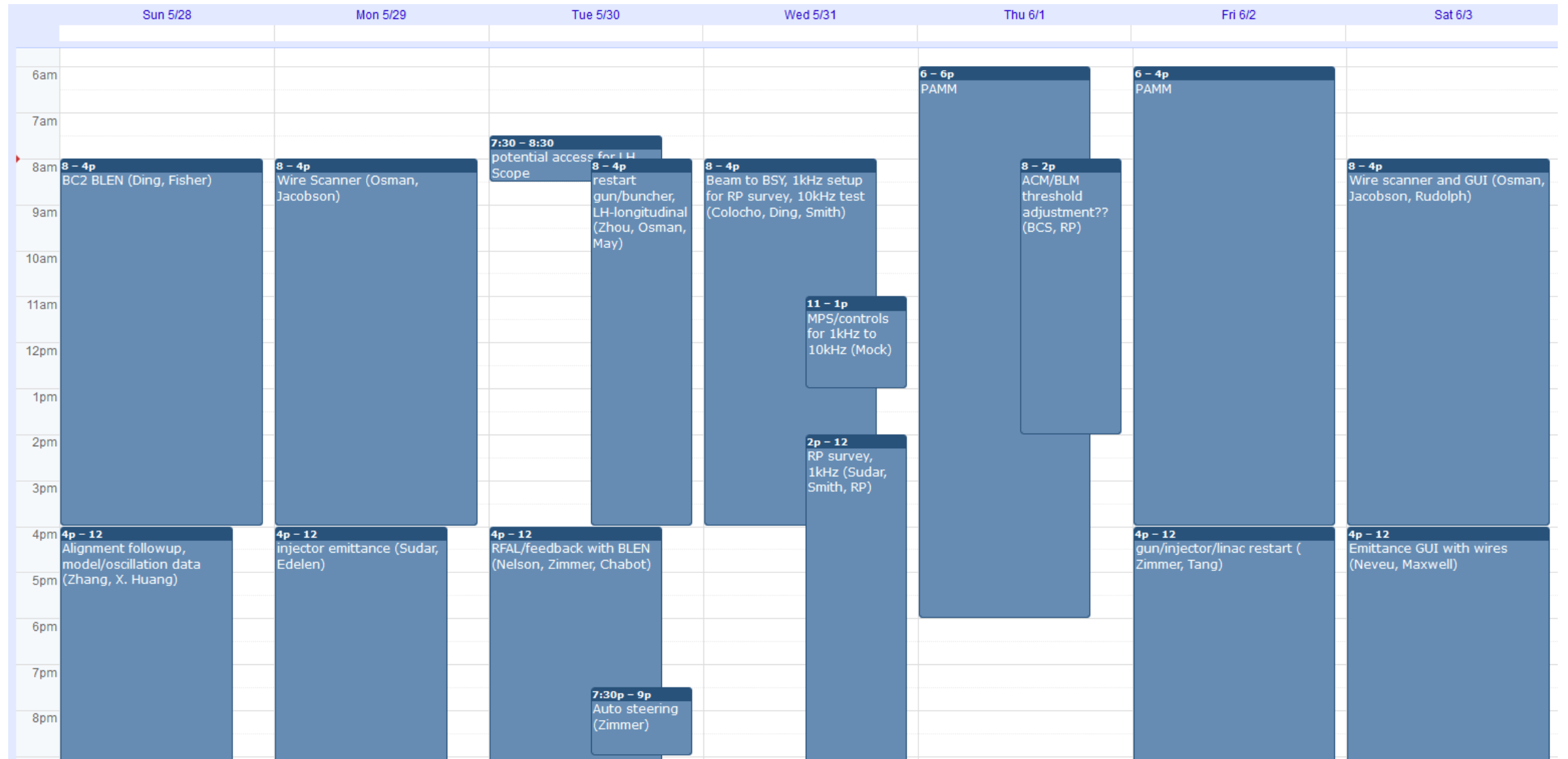
[https://calendar.google.com/calendar/u/0/embed?height=600&wkst=1&mode=WEEK&bgcolor=%2300CCDD&ctz=America/Los\\_Angeles&title=LCLS+SC+Linac+Schedule&src=Z285ZH0MmZqOWc2OTUxcXZpcDA1cGJpMzBAZ3JvdXAuY2FsZW5kYXluZ29vZ2xlLmNvbQ&src=bnE3ajQzdHRicjY2cGU4NzFyMmVtZ2ZvcjBAZ3JvdXAuY2FsZW5kYXluZ29vZ2xlLmNvbQ&color=%237986CB&color=%23009688](https://calendar.google.com/calendar/u/0/embed?height=600&wkst=1&mode=WEEK&bgcolor=%2300CCDD&ctz=America/Los_Angeles&title=LCLS+SC+Linac+Schedule&src=Z285ZH0MmZqOWc2OTUxcXZpcDA1cGJpMzBAZ3JvdXAuY2FsZW5kYXluZ29vZ2xlLmNvbQ&src=bnE3ajQzdHRicjY2cGU4NzFyMmVtZ2ZvcjBAZ3JvdXAuY2FsZW5kYXluZ29vZ2xlLmNvbQ&color=%237986CB&color=%23009688)



Blue is injector and beam setup  
Green is SRF work

# SC Linac plans – next week

Day shift is 8 am – 4 pm, Swing shift is 4 pm – 12 pm. Progress & plans discussed daily at 4:15 pm meeting

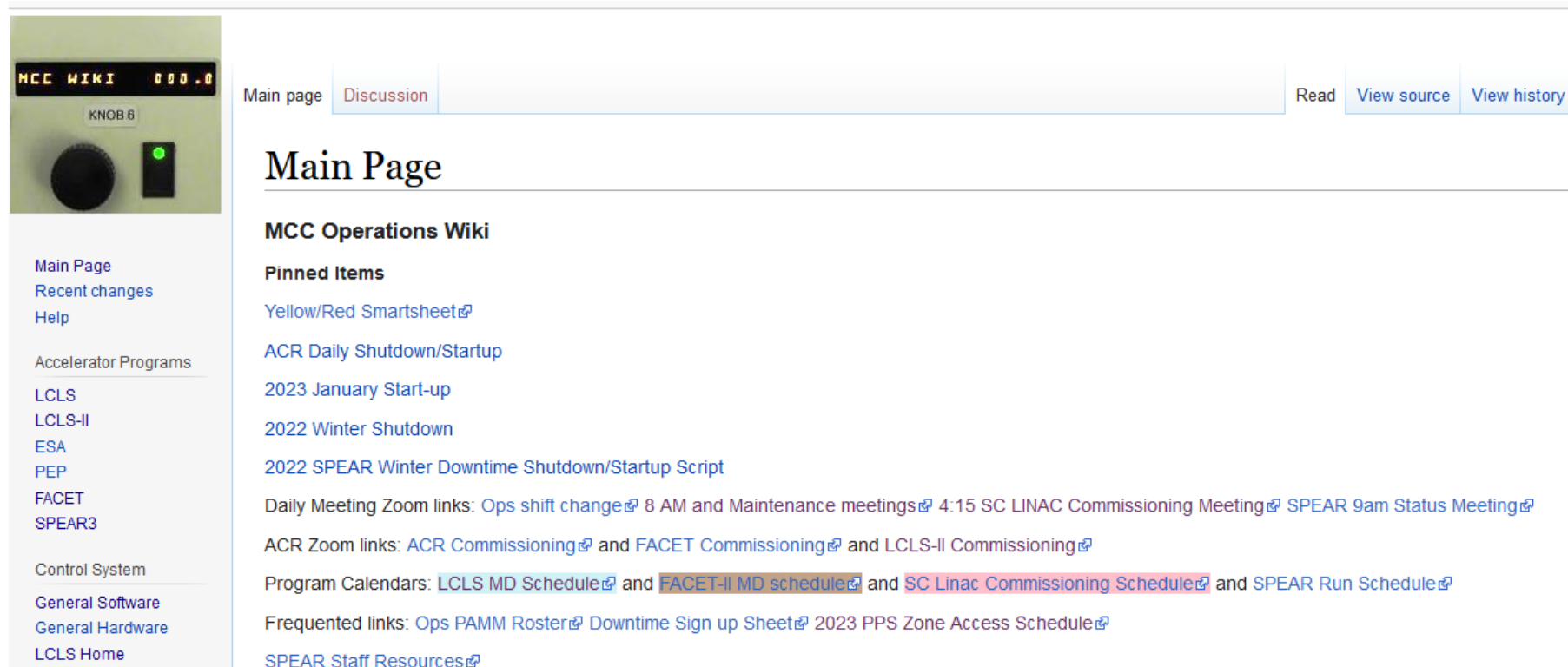


# NC Linac plans

Injector RF conditioning through weekend, beam to TD11 Tuesday

- [https://aosd.slac.stanford.edu/wiki/index.php/Main\\_Page](https://aosd.slac.stanford.edu/wiki/index.php/Main_Page)

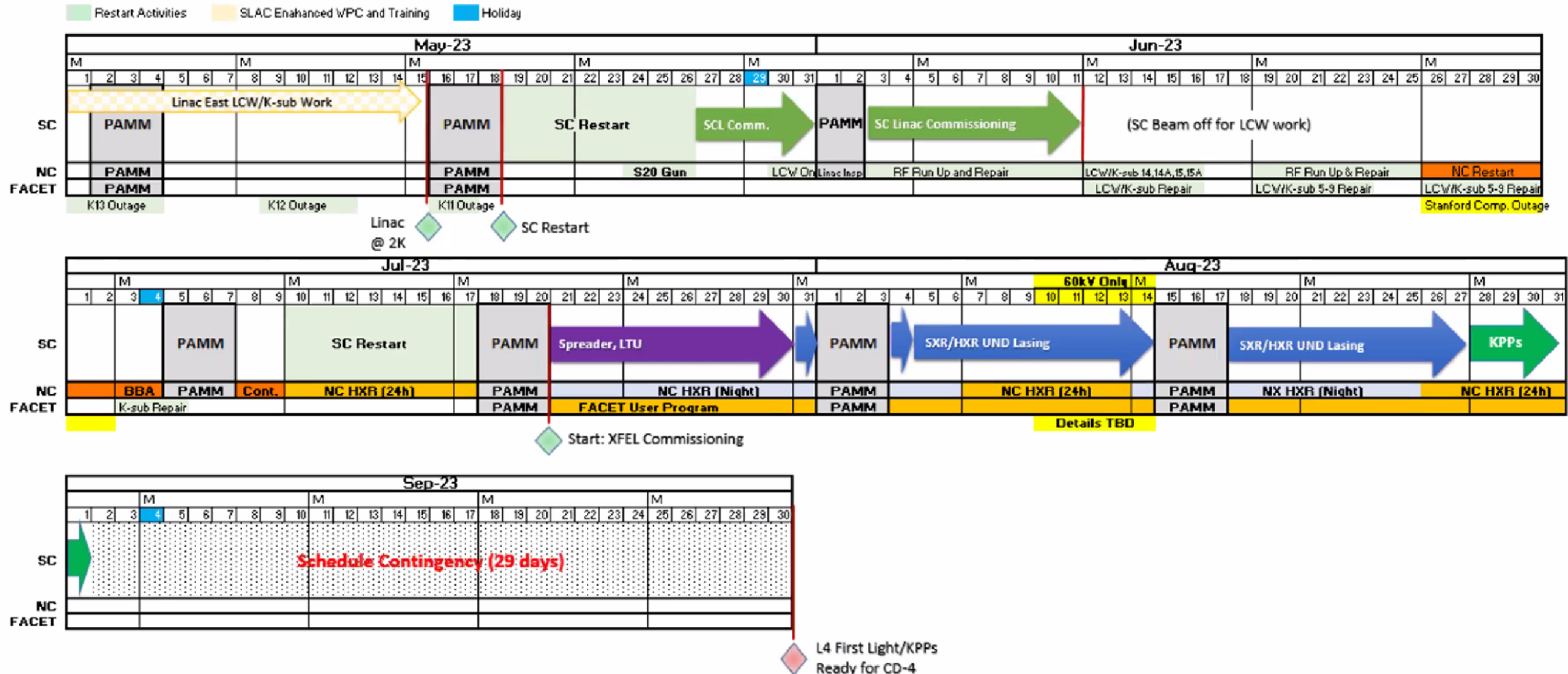
The 3 program schedules are linked near the top of this page – best to bookmark them since the URLs are ridiculous.



The screenshot shows the 'Main Page' of the 'MCC Operations Wiki'. At the top, there are navigation tabs for 'Main page' and 'Discussion', along with 'Read', 'View source', and 'View history' buttons. The page title is 'Main Page'. Below the title, there is a section for 'MCC Operations Wiki' and 'Pinned Items'. The pinned items include links to 'Yellow/Red Smartsheet', 'ACR Daily Shutdown/Startup', '2023 January Start-up', '2022 Winter Shutdown', and '2022 SPEAR Winter Downtime Shutdown/Startup Script'. There are also links for 'Daily Meeting Zoom links', 'ACR Zoom links', 'Program Calendars', and 'Frequented links'. A sidebar on the left contains a navigation menu with links for 'Main Page', 'Recent changes', 'Help', 'Accelerator Programs', 'Control System', 'General Software', 'General Hardware', and 'LCLS Home'.

# Looking ahead – big picture for following months

Lab's highest priority is meeting the KPPs!



# Random reminders and things

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- Monday is a holiday!
  - We're asking that Operations only reaches out to system experts during day/swing shifts, and only if the issue truly is urgent. They can also call me and I'll try to filter/redirect requests.
- It is very important to remember that our new work planning requirements are still in effect (e.g. PJBs for yellow/red work). If operations calls with an urgent request we still need to get all necessary approvals.
- Next week we'll have another short meeting (no special presentation).