Controls SW Group Meeting

August 17, 2023

Agenda

1. State of the machine
2. Upcoming schedules
3. Intern Project Talks

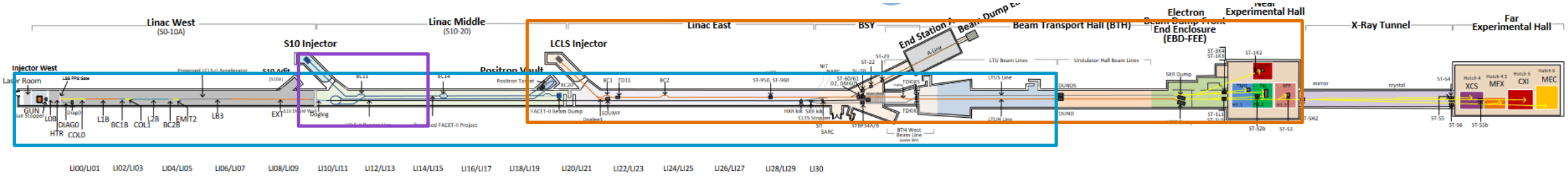
T. Summers

SLAC NATIONAL ACCELERATOR LABORATORY

State of the Accelerators

All 4 accelerators running! (Linac plus SPEAR3)

- **LCLS-SC: Beam has been sent LTU for the first time**
  - Working on optimizing beam through LTUS/H, preparing for sending through undulators
- **FACET: Beam restoration through linac progressing**
  - Currently working on laser heater commissioning
- **LCLS-Cu/NC: Running to experiments on swing/owl shifts, standby during day for SC focus**
  - Generally running well



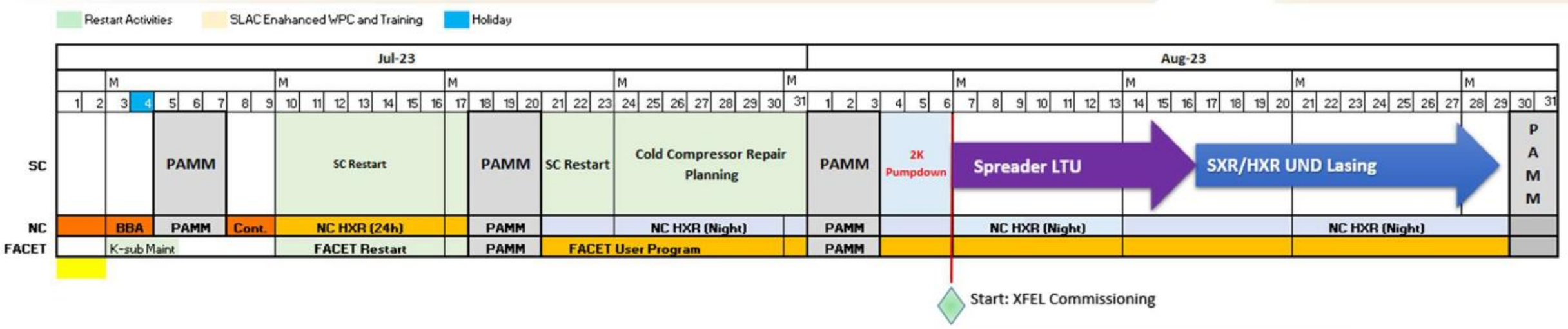
Upcoming maintenance periods

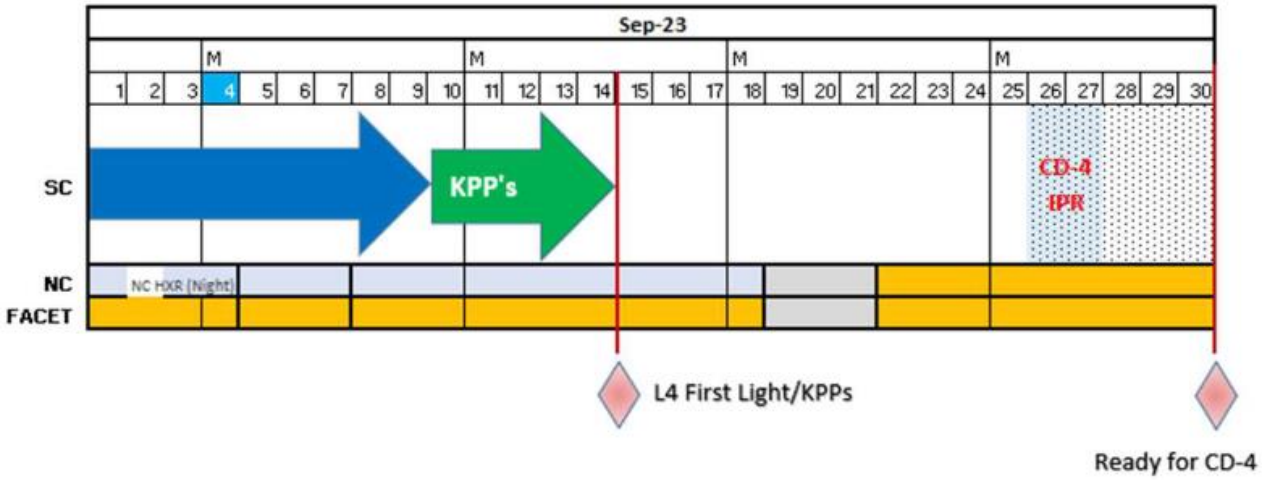
Next week LCLS-NC only POMM

- Purpose is to focus on meeting the SC KPPs by the end of September deadline
- Next PAMM in two weeks – 8/30-8/31
- LCLS-NC POMMs and FACET POMMs as needed could be useful for software work
- Had a “SPAMM” yesterday, so this may happen again

Edit	Start Date ↓	End Date	Program	Machine Status	Description
777	11/27/2023	01/26/2024	AOSD LCLS	Downtime	Nov-Jan Linac West Downtime
766	11/27/2023	12/20/2023	All Accelerators	Downtime	Nov-Dec FACET & LCLS Cu Downtime
775	09/19/2023	09/21/2023	All Accelerators	PAMM	9/19-9/21 PAMM
774	09/05/2023	09/07/2023	All Accelerators	PAMM	9/5-9/7 PAMM (cancelled, bucket locked)
773	08/30/2023	08/31/2023	All Accelerators	PAMM	8/30-8/31 PAMM
779	08/23/2023	08/23/2023	AOSD LCLS	POMM	LCLS NC-Only POMM

Looking ahead – big picture for following months

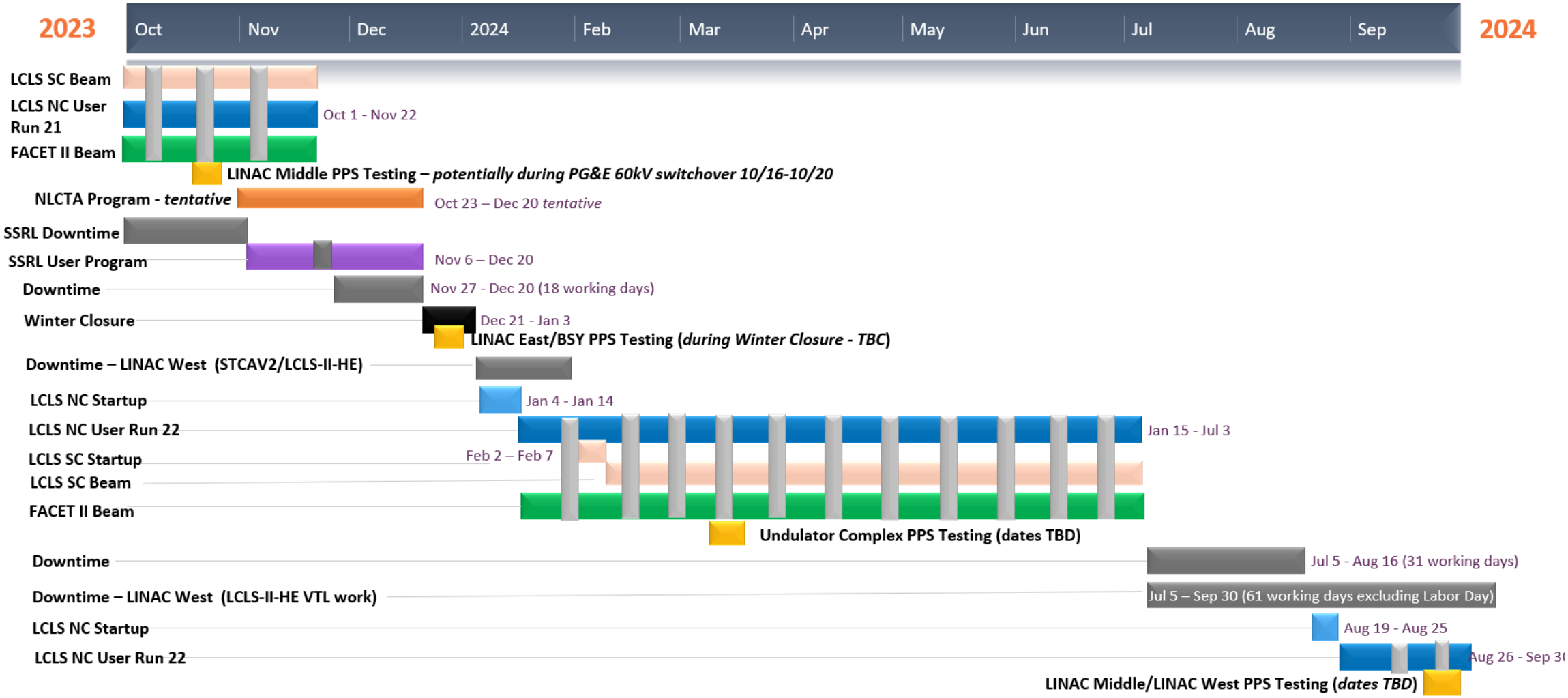




As of August 4, 2023 Activity	Durations
Restart Activities	8 days
SC Linac commissioning	14 days
PPS Recertification	4-7 days
Spreader LTU	10 days
SXR/HXR Und Lasing	22 days
Verify KPP's	5 days
1st Light	**14-Sep**
Ready for CD4	**30-Sep**

https://slac.sharepoint.com/sites/lcls/lcls-2/admin/OC/LCLS-II%20Revised%20First%20Light%20Schedule.pdf

Looking ahead – big picture for following months



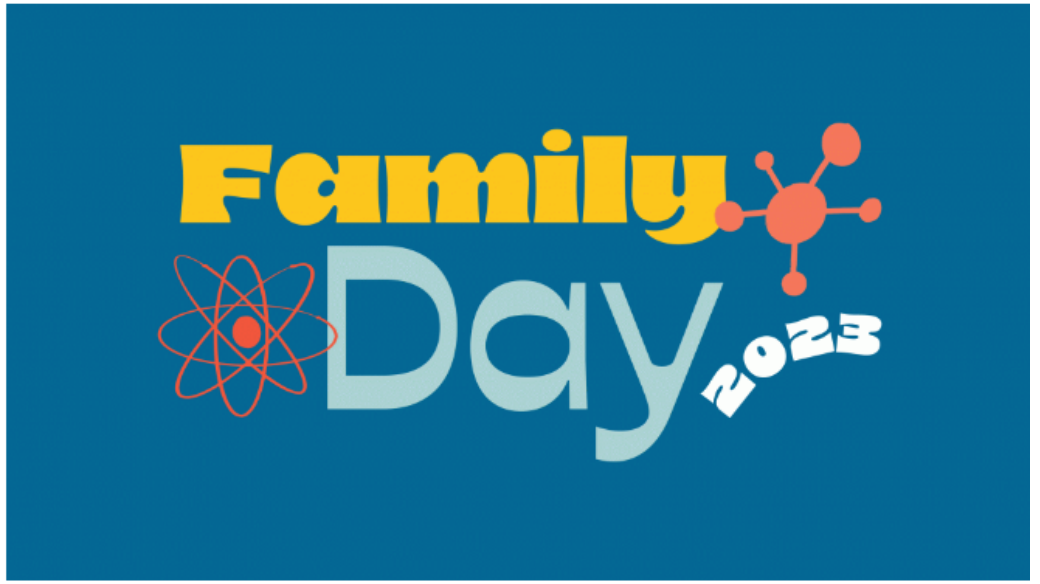
From Sharon's Downtime Planning Meeting slides

SLAC Family Day

Saturday August 19th

- *https://internal.slac.stanford.edu/communications/family-day*
- The SLAC Market pop-up shop will make an appearance at Family Day on Aug. 19, from 1-2:30 p.m. and 4:30-5 p.m. Shirts, pins, mugs, hats, stickers, accelerator model kits [LEGO!] and more will be available. Check out the full inventory on the SLAC Market page.

  Please preorder your merchandise for your convenience, as we will have a limited inventory available for walk-up orders. Order **here** by Aug. 16.



You and your guests are invited to SLAC Family Day!

What: SLAC Family Day is an afternoon of enriching activities to learn about science and have fun doing it. Participate in interactive demos, view engaging exhibits, listen to short science talks (and ask lots of questions), take mini facility tours, enjoy free refreshments and kids get giveaways

When: Saturday, Aug. 19, 1 - 5 p.m.

Where: The Science and User Support Building (SUSB), Kavli Auditorium and the Main Quad

Who: SLAC staff, their families and guests

How to participate: **Register here** (enter password "SLAC" when prompted - you may be prompted twice). Family Day is free to attend but registration is required by Aug. 7.

SOLD OUT! As of 8/7/2023 there are no more tickets available for the event.

Please sign up for the wait list **here** and you will be contacted after August 11th to let you know if this is possible.

Volunteers are still needed, sign up **here** if you are interested.

Ok… are we going to hear the story of the ducks?

(Thank you for the laughs in any case :D)

Special Presentations

Intern Project Talks

August 17th (this week):

Chanel (Kyle) - Python Software Support for Fast Feedback System

Dylan (Namrata) - Investigate and test Beckhoff EtherCAT modules for a single axis stepper motor system with feedback.

Boogie (Claudio) - New Logging System For Experimental Facilities

August 24th (next week):

Cade (An) - Software Support for Magnet Controls Infrastructure

Caleb (Chris) - A PyDM camera display interface optimized for EPIC7 datatypes, test archiving and methods for visualizing historical data.

Fatima (Yekta) - A new PyDM archive viewer