

# Controls SW Group Meeting

September 14, 2023

## Agenda

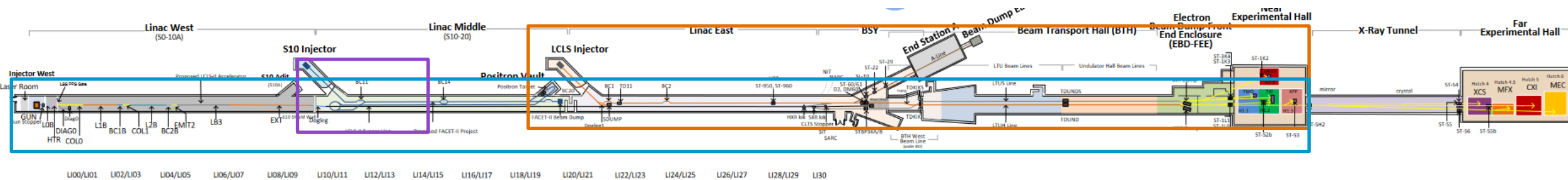
1. State of the machine
2. Upcoming schedules
3. Lightning talk  
by Ryan McClanahan
4. **Special Presentation**  
by Evren Keskin

T. Summers

# State of the Accelerators

All 4 accelerators running! (Linac plus SPEAR3)

- **LCLS-SC: We achieved all KPPs!**
  - Demonstrated lasing through both undulators
  - Continue with tuning and surveys
  - 4:15 commissioning meeting has been reduced to Mondays only
- **FACET: Beam restoration through linac paused**
  - Currently waiting on getting enough RF stations back in service
- **LCLS-Cu/NC: Running to experiments on swing/owl shifts, standby during day for SC focus**
  - Generally running well
  - Starting Sunday they will run all 3 shifts (no more standby for day shift)





# LCLS-SC KPPs Achieved

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Dear AD Staff,

The LCLS-II commissioning team successfully lased on the hard X-ray line at a photon energy of 3.8 keV Tuesday afternoon. This was the final key performance parameter needed to finish the LCLS-II project and brings the formal commissioning of LCLS-II to a close! **To celebrate this huge project ending milestone, we will have a small celebration in the AD atrium on Thursday at noon.** Please join us to celebrate your success. A much larger celebration is being planned by the laboratory sometime in late October.

John Schmerge  
Interim AD Associate Lab Director

# Upcoming maintenance periods

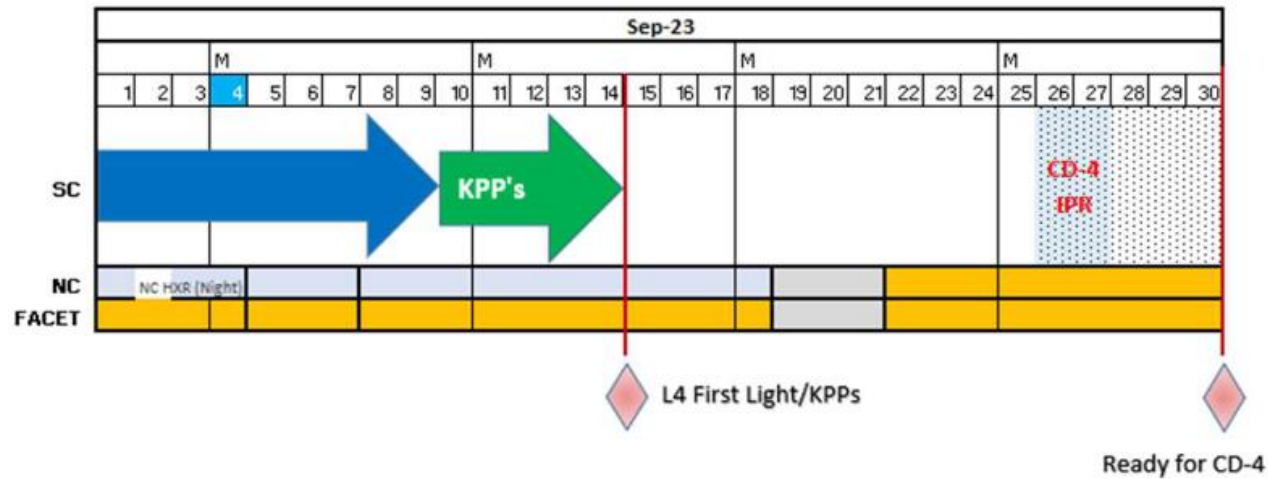
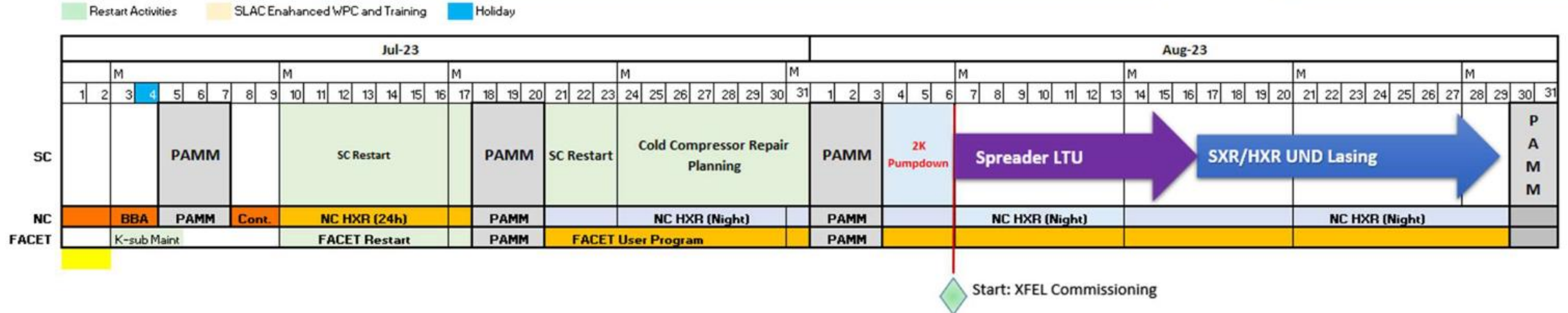
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Next week: All-Linac PAMM from 6am Tuesday through 6pm Thursday

- PAMM Planning meeting today at 2pm in Mad River
- There is a LOT of jobs requested to take place this PAMM
- Notable software jobs:
  - Upgrading lcls-prod01 likely in morning (15 minute outage) – public PV gateway, PV gateways for Archiver
  - FACET archiver appliance upgrade in morning (2-3 hour outage)
    - Will shut down all archivers for 30-60 minutes then restart them (with usual up to 2 hour reconnection times)

| <a href="#">Edit</a> | <a href="#">Start Date</a> ↓ | <a href="#">End Date</a> | <a href="#">Program</a> | <a href="#">Machine Status</a> | <a href="#">Description</a>      |
|----------------------|------------------------------|--------------------------|-------------------------|--------------------------------|----------------------------------|
| 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 |
| 782                  | 10/03/2023                   | 10/05/2023               | All Accelerators        | PAMM                           | 10/3-10/5 PAMM                   |
| 775                  | 09/19/2023                   | 09/21/2023               | All Accelerators        | PAMM                           | 9/19-9/21 PAMM                   |

# 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        |
| <b>1st Light</b>       | <b>14-Sep</b> |
| <b>Ready for CD4</b>   | <b>30-Sep</b> |

# Congratulations to the TEA committee!!

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## 2022 Director's Award Winners

### Technology Excellence Award Team

- Carolina Bianchini-Mattison, AD
- Jeremy Mock, AD
- Poonam Pandey, AD
- Ernest Williams, Jr., TID
- Michael Zelazny, AD

The Technology Excellence Award team saw an opportunity to encourage adoption of the laboratory's core values, honor employees who embrace and promote these values, and award technical excellence and creativity that serves SLAC's mission. Through your team's efforts to propose, develop and implement this award program, they exemplified SLAC's core values and showed leadership while navigating the laboratory's complex approval process and providing a strategic tool to help with employee retention.





## Lightning Talk – Ryan McClanahan

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As you all know, Carolina has an exciting time coming so we wish her well!

Ryan has been mentoring with her preparation for taking over as the point of contact for the timing system software over the next two and a half months.

Ryan will give a brief overview of recent work on SC timing system applications.

# Special Presentations

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## Intern Talk – Evren Keskin

Summarizing his work as Zach Domke's intern, recreating the normal conducting MPS GUI in PyDM.  
This will be replacing the current Java MPS GUI used for LCLS-NC and FACET.