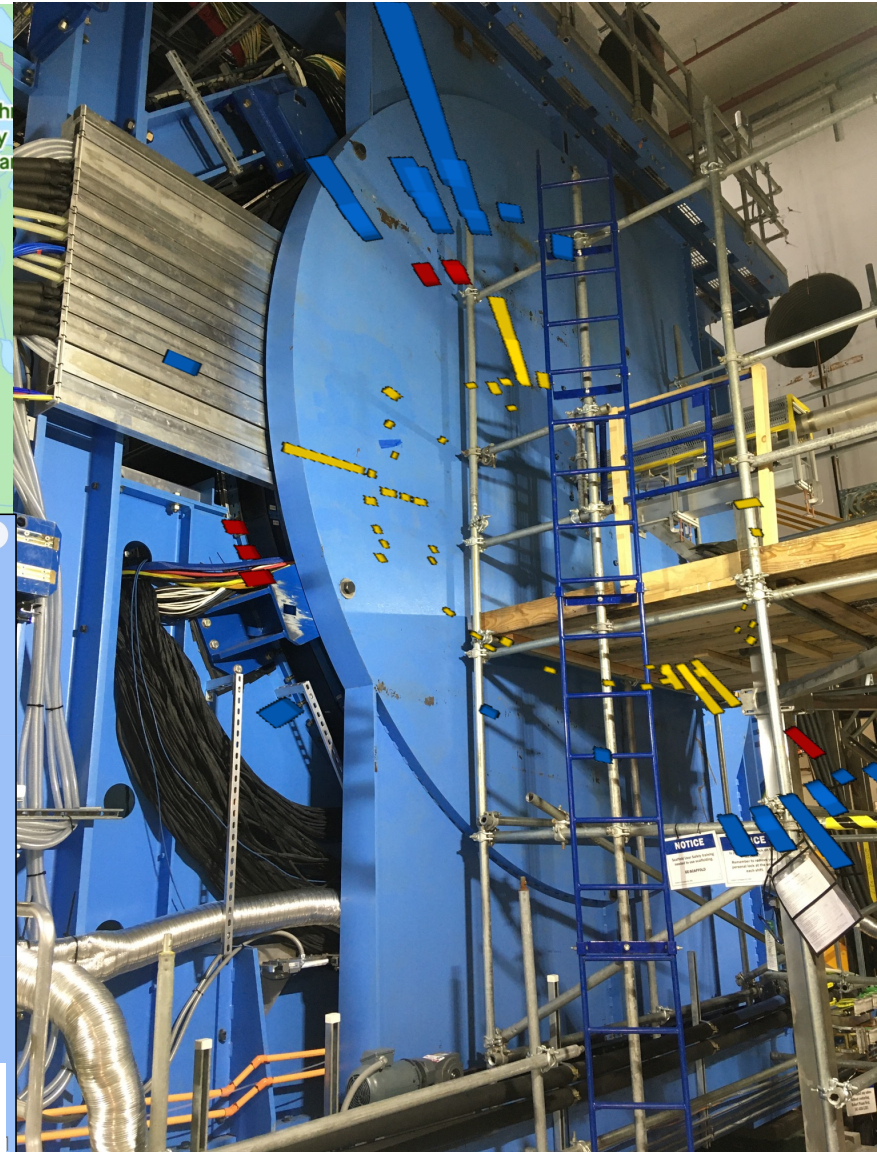
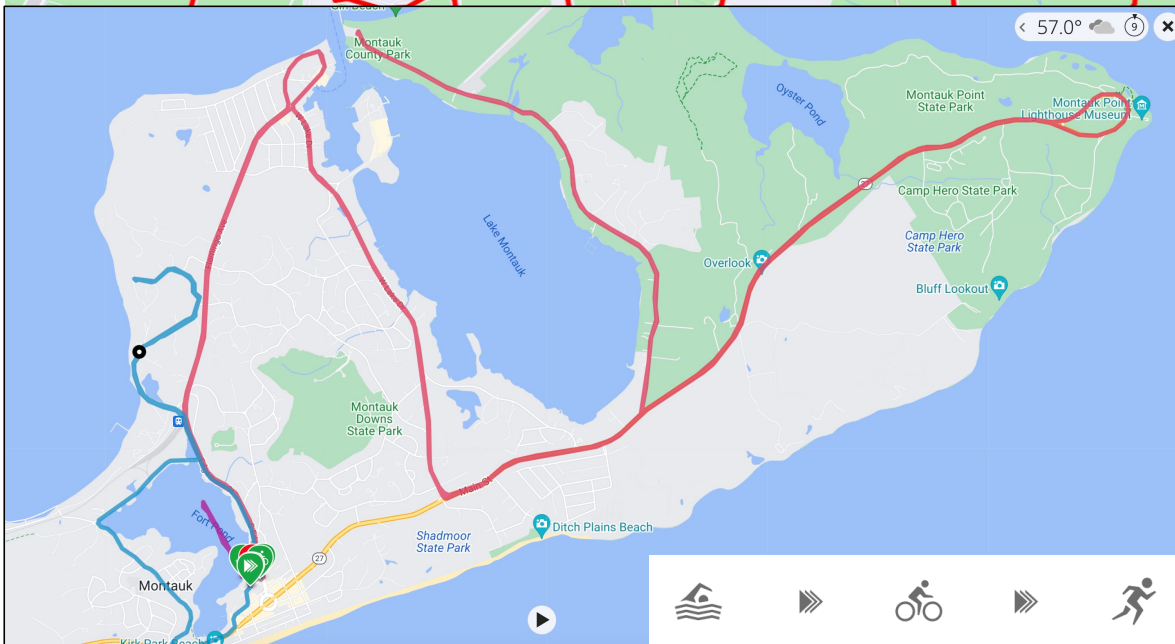


sPHENIX Status

RHIC Coordination Meeting

September 24, 2024

Jamie Nagle
University of Colorado Boulder
sPHENIX Run Coordinator





SPHENIX Collaboration

Highlighting early career collaborators

sPHENIX Hero: Bade Sayki

How long have you been working in sPHENIX and at what institution?

I have been working on sPHENIX since January 2022 in affiliation with Los Alamos National Laboratory.

What is the focus of your work on the sPHENIX experiment?

I have been involved in basically every single step of the TPOT detector from DOE greenlight to construction to commissioning to now. It is a huge opportunity to be a part of almost every detail of a subsystem and learn the ins and outs as a graduate student. Most recently, I have been working on characterizing the latest version of the firmware for TPOT in collaboration with the TPC electronics team. We have also recently received an LDRD starting FY2025 to study the J/ψ production inside jets with novel observables, which will be the foundation of my thesis work.

Where were you born and what is your educational background before your current position?

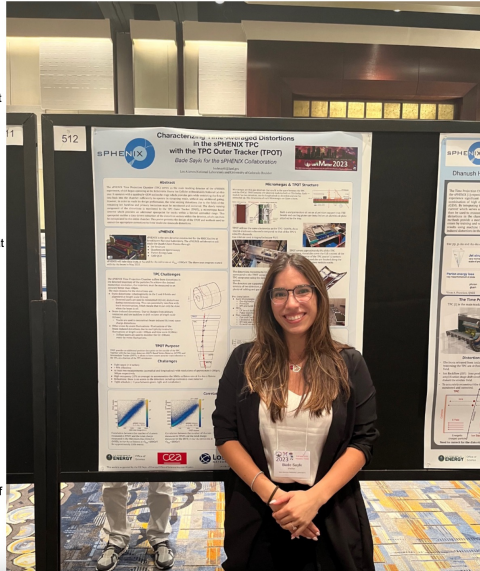
I was born in Istanbul, and moved to the US to pursue an undergraduate degree in Physics at UCLA with a minor in Mathematics. I started my research journey as a freshman, working on the NIRSPEC instrument that is a part of the Keck Telescopes in Hawaii. Afterwards, I did a small project on SETI and later transitioned into working on theoretical nuclear physics to study parallel phenomena in QED and QCD. I later started a Postbac position at LANL focusing on the MAJORANA experiment, studying neutrinoless double beta decay phenomenon. Later, I started working on the design and prototype of the Magnet Station detector at LHCb. As of Fall 2021, I have been a PhD student at University of Colorado Boulder.

What is the title of your Ph.D. or tentative title? Awards or biggest talk highlight?

No title just yet, but it will have something to do about measuring the J/ψ production inside jets.

How did you decide to go into heavy ion or spin research?

It really all started with some popular science books that I don't even remember the names of when I was 15. But substantially, I have been fortunate enough to learn from many wonderful mentors and role models including but not limited to Dr Hugo Pereira Da Costa who is my advisor at LANL, Dr James Nagle who is my titular advisor at CU Boulder, Dr Cesar Luis Da Silva who was my mentor while working on the Magnet Station at LHCb, and Dr Zhongbo Kang who was my mentor while studying parallel phenomena in QED and QCD at UCLA. Learning from these scientists has been the backbone of a lifetime and inspired me to pursue



9/24/24

SPHENIX 2024

<https://www.sphenix.bnl.gov/node/1751378401>

sPHENIX Hero: Shuhang Li

How long have you been working in sPHENIX and at what institution?

I started working on sPHENIX in fall 2020, when I started my junior year at Columbia University.

What is the focus of your work on the sPHENIX experiment?

I got opportunities to work on several different things for sPHENIX :) I have the luck to help with various parts of our simulation, calorimeter data reconstruction, calibration, and online monitoring. I have also done some small data analysis tasks which I really enjoyed, for example, calculating the corrected p_{T0} and η spectrum from our early p+p running data.

Where were you born and what is your educational background before your current position?

I was born in Beijing, China, and grew up living on a college campus, where I spent most of my childhood until I finished high school. Afterward, I moved to the US for my undergraduate studies, starting at Augustana University, before transferring to Columbia.

What is the title of your Ph.D. or tentative title? Awards or biggest talk highlight?

I haven't decided my thesis topic yet, hopefully related to photon-tagged jets.

How did you decide to go into heavy ion or spin research?

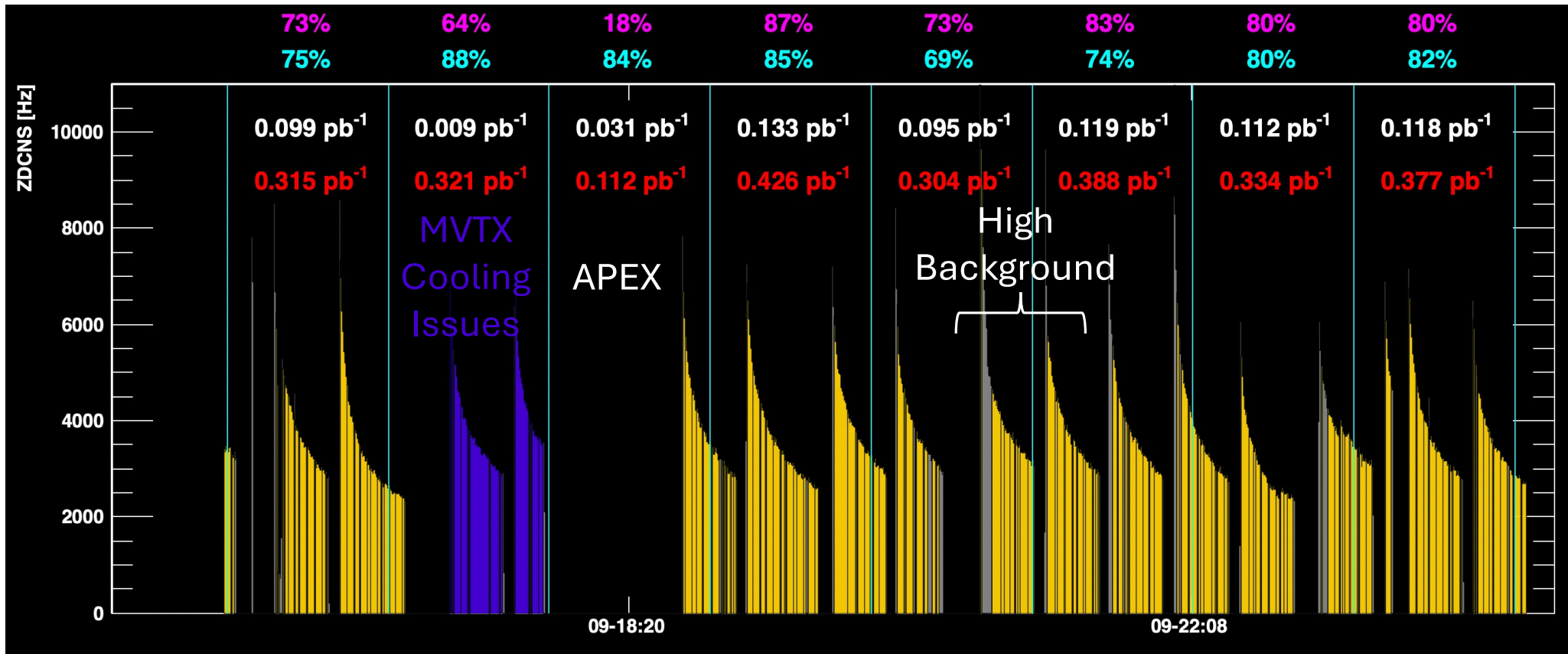
I was fascinated by the Standard Model from a young age. Then, in my freshman year, I began research with Nathan Grau, analyzing PHENIX data, which was an amazing experience.

What do you like to do in your spare time?

I spend a lot of time listening to music and attempting to learn how to sing the songs I like. To further justify my relatively uneventful spare time: I sleep quite a lot on average.



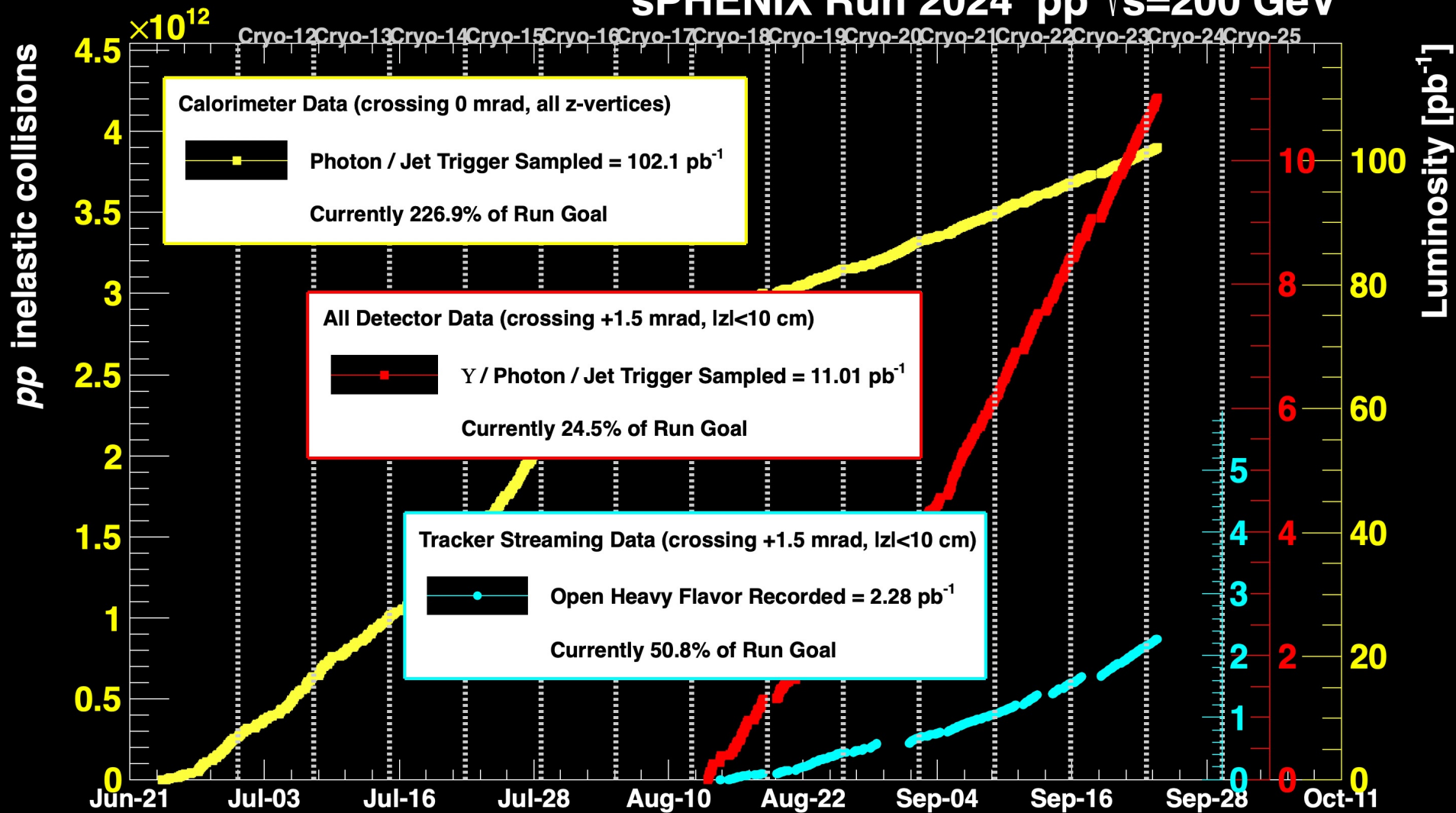
262



Excellent data taking over the last week.

Extra APEX and Machine Development tomorrow and then 4 more days of pp data taking.

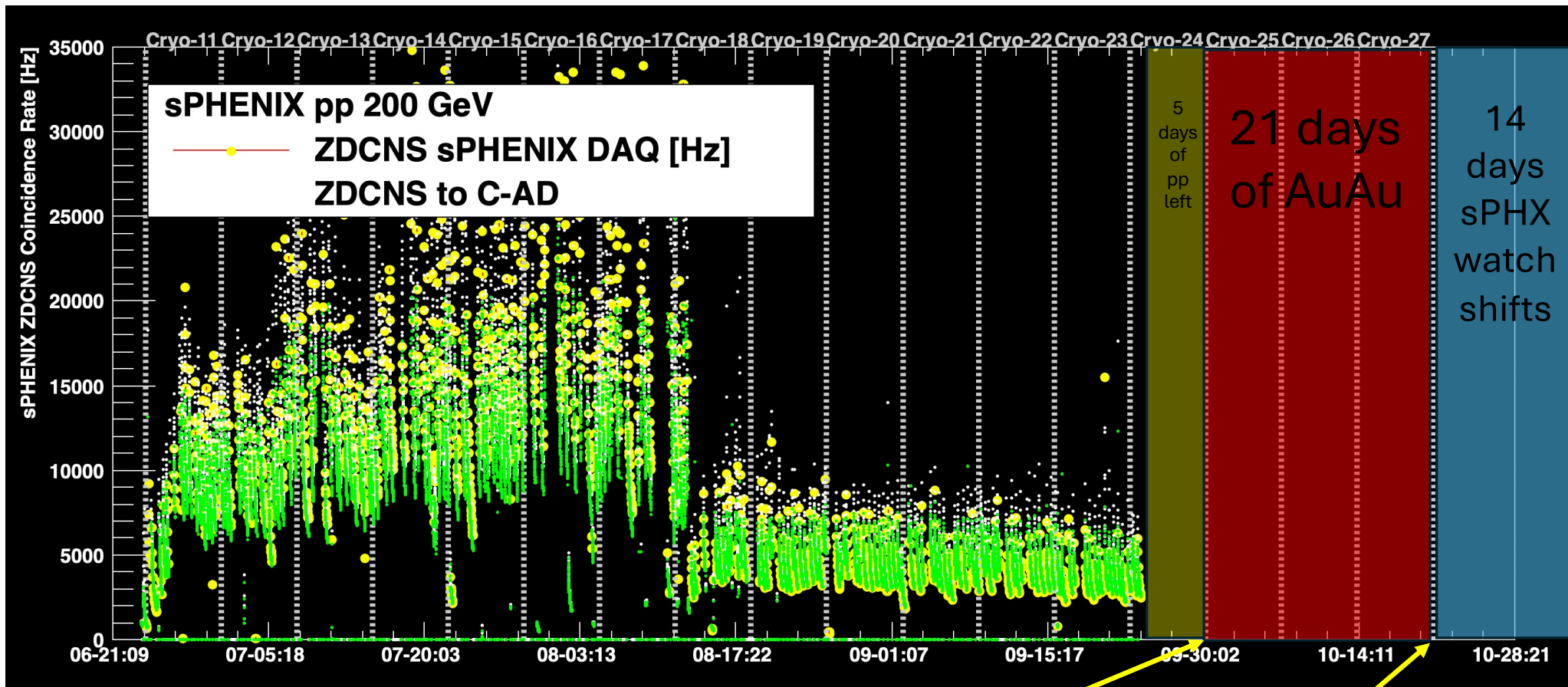
sPHENIX Run 2024 pp $\sqrt{s}=200$ GeV



End of sPHENIX Proton-Proton Run Party



Monday, September 30, 2024, from 5-7 pm
All are invited. Come join us out at 1008.



September 30, 2024
 8 am – end of pp

October 21, 2024
 8 am – end of AuAu

sPHENIX Au+Au 200 GeV Plan starting Monday, Sept. 30

Day	RHIC day	Major activity	Beam conditions	Detector status
Monday Sep 30	1	Maintenance		Off
Tuesday Oct 1	2			Off Tune ZDC voltages
Wednesday Oct 2	3	Possible overnight store	CAD	Off Turn on MBD
Thursday Oct 3	4	Possible overnight store	CAD	Tune MBD and trigger
Friday Oct 4	5	Overnight store	28/56/111 bunches	Calorimeter timing
Saturday Oct 5	6	"Physics" stores		Calorimeter data taking
Sunday Oct 6	7	"Physics stores"	56 MHz setup begins	
Monday Oct 7	8	Silicon trackers		Si detector setup
Tuesday Oct 8	9	Silicon trackers		Si detector operation
Wednesday Oct 9	10	TPC	6x6	Turn on TPC
Thursday Oct 10	11	TPC	28x28	
Friday Oct 11	12	TPC	111x111	
Saturday Oct 12	13			
Sunday Oct 13	14			
Monday Oct 14	15			
Tuesday Oct 15	16	Possible absorber installation		
Wednesday Oct 16	17	Possible absorber installation		
Thursday Oct 17	18	Possible absorber installation		
Friday Oct 18	19			
Saturday Oct 19	20			
Sunday Oct 20	21			
Monday Oct 21	22	End of run; leave magnet on for TPC laser tests		
Tuesday Oct 22	23	Turn off magnet, go to watch shifts		

sPHENIX will try to schedule all Maintenance work in the IR for Monday, September 30.

Timing in with overnight store on Wednesday, October 2.

6x6 store for background checks during the day on **Friday, Oct. 4 or Monday Oct. 7...**