



Highlighting early career collaborators

sPHENIX Hero: Devon Loomis

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

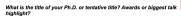
I have been working in sPHENIX since the summer of 2022 as a graduate student at the University of Michigan.

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

I have been mostly focused on preparation for spin physics and cold QCD. This has included development of the spin database and online monitoring, and commissioning of the ZDC/SMD/local polarimeter. More recently, I have also been helping the tracking team characterize TPC performance.

Where were you born and what is your educational background before

I was born in Watsonville, California but grew up in a small town northeast of Sacramento. I attended Western Kentucky University as an undergraduate before going to graduate school at the University of Michigan.



A tentative title for my Ph.D. is "Eta meson cross sections and spin asymmetries at PHENIX". I was very fortunate to give a talk this year at DIS2024 in

sPHENIX Hero: Xudong Yu

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

I joined sPHENIX in May 2023 as a second year Ph.D student at Peking University at the same time sPHENIX began taking data. Therefore, I am still a newbie in sPHENIX.

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

My focus on sPHENIX experiment separates into two parts. One is heavy flavor physics including quarkonium and open heavy flavor. Another one is doing service work in MVTX group and tracking software group.

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

I was born in Japan, but I am a Chinese from Fujian province. I got my bachelor's degree in Sun Yat-sen University before I went to Peking University. I Join in BESIII experiment since I was a sophomore and do University. I Join in BESIII experiment since I was a sopnomore and do some physics analysis about Lambda_c decay. Therefore, I have some experience on physics analysis, but lack of experience on hardware. I hope I can learn some hardware knowledge in sPHENIX to be a true experimental physicist.

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

Since I am on the half way of Ph.D career, the title of Ph.D thesis has not been fixed. I have finished four physics papers about Lambda_c decay at BESIII and new physics search, so a possible title of Ph.D thesis may be something like heavy flavor physics in BESIII and sPHENIX. I try to make sPHENIX part richer in context. My ideal goal is 50% BESIII and 50% sPHENIX in thesis, and it really depends on my current progress in



sPHENIX Hero: Derek Anderson

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

I've been working in sPHENIX for 2 years as a postdoc at lowa State

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

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

I'm from Kanas City! I was born on the Kansas side, and grew up on the Missouri side. I went to the Missouri University of Science & Technology my undergraduate education, and Texas A&M for graduate school.

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

My PhD was "Reconstruction of neutral-triggered recoil jets in \sqrt{s} = 200 GeV p+p collisions at the STAR experiment." I was able to give a talk at Quark Matter 2022 on it and the L_(AA) measurements it served as a hea

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

I actually first got interested in QCD from a book by Frank Wilczek, the Lightness of Being. Something that struck me then and has since continued to is how remarkably complex phonomena—like the QGP, or even just the spectrum of hadrons – emerge from the relative simplicity of the underlying partonal



Where can you find this duck?

sPHENIX Hero: Mai Kano

I joined sPHENIX in October 2022, when I was fourth year bachelor studer at Nara Women's university. So I have been working for almost two years

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

I am working for the INTT group since I joined sPHENIX. Currently I am doing data QA, mainly on data readout of INTT. I am now in second year of the master program, and I still have a lot to learn, so my days are tough, but I am enjoying student life.

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

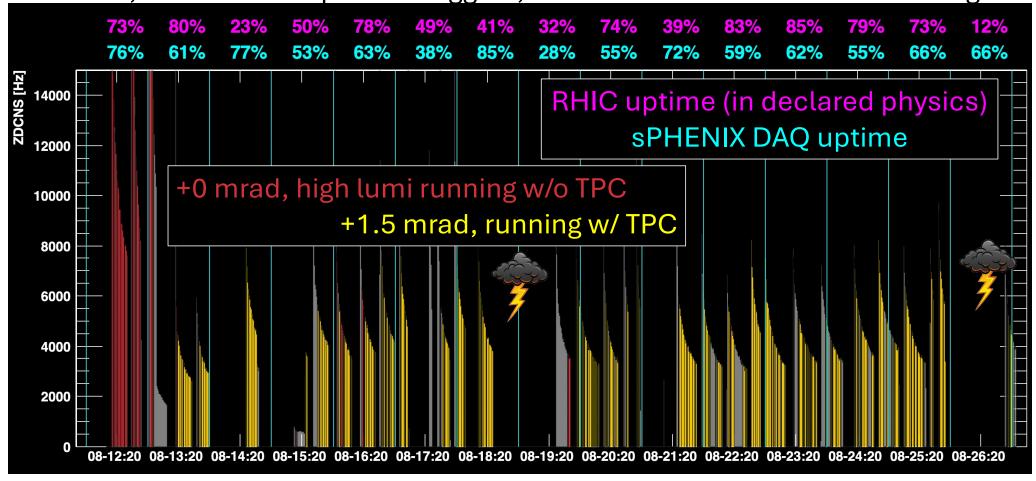
Since I am still in the master's program, I will be writing my master's thesis from now on. The title will be on the INIT data OA that I am currently working. I have not jewn at talk at a major conference by the beause of my inexperience, but I talked at JPS in March 2024 on 'Data readout of the intermediate track detector INIT in the RHC2-PIEMIX (jewn at talk titled 'Data readout of the intermediate track detector INIT in the RHC2-PIEMIX (jewn at talk titled 'Data readout of the intermediate track detector INIT in the RHC2-PIEMIX (jewn at talk titled 'Data readout of the intermediate track detector INIT in the RHC2-PIEMIX (jewn at talk titled 'Data readout of the intermediate track detector INIT in the RHC2-PIEMIX (jewn at talk titled 'Data readout of the intermediate track detector INIT in the RHC2-PIEMIX (jewn at talk titled 'Data readout of the INIT in PIEMIX at JPS in September this year. This will probably be the biggest talk so far.

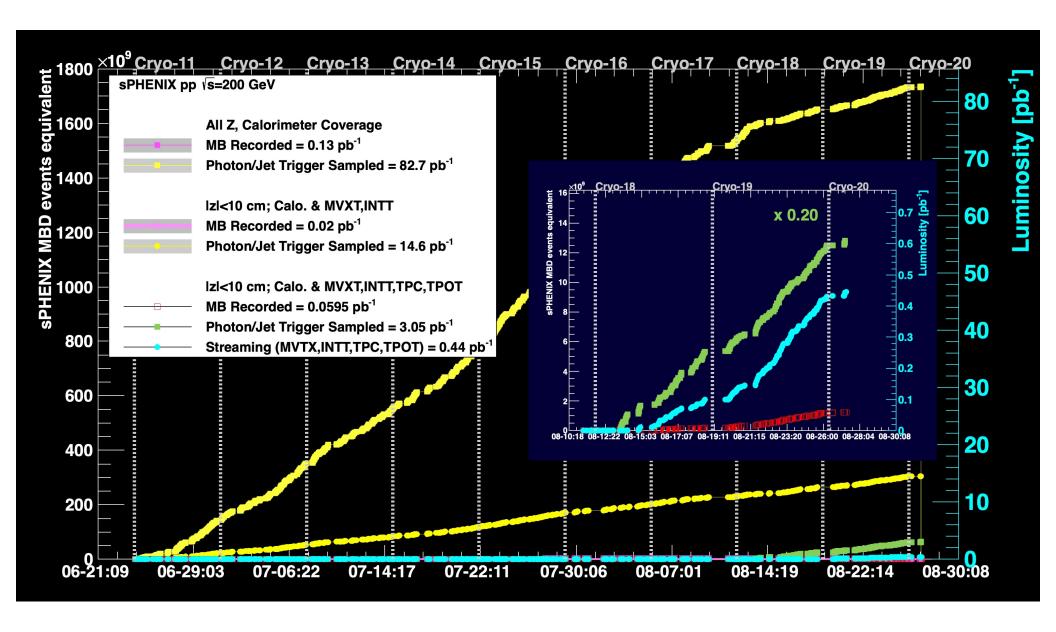


14 days of sPHENIX w/ TPC physics data taking at +1.5 mrad

1st week, full lumi. sampled w/ triggers, ~ 10% extended readout/streaming

2nd week, full lumi. Sampled w/ triggers, ~ 20% extended readout/streaming





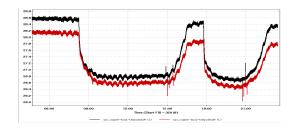
Great C-AD luminosity delivered over the past week

Yesterday, tough day 🦻 , but lemons 🍊 into lemonade





sPHENIX magnet tripped twice -- due to broken water flow switch and then power dip



sPHENIX low luminosity, B=0 data taking for alignment checked off the list \



sPHENIX is running with uptime ~ 65% and 20% streaming Note that BUP specs were 60% uptime, 10% streaming



Working on options for increasing extended readout/streaming towards 30%

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- sPHENIX has 8-hours of work for Maintenance Day tomorrow
- Looking forward to Machine Development on Beta Squeeze on Thursday
- sPHENIX working with Angelika to reconcile differences in #s from Vernier Scan
- sPHENIX requested 4-week extension to pp 200 GeV running.
 Under consideration by ALD/DOE.
- sPHENIX requested delay in PAC meeting, so AuAu running information can be incorporated

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