

Feb 2, 2024, ePIC General Meeting

ePIC Collaboration Meeting Report



Maria Źurek
Argonne National Laboratory



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Program



Argonne National Laboratory is a
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ePIC Collaboration Meeting: Jan 9 - Jan 13, 2024

<https://indico.bnl.gov/event/20473/>

- Theme of this meeting is focused on organizing and planning the work to prepare the ePIC contributions to the EIC TDR
 - 3 days of parallel “workfests” (Jan 9 - 11)
 - 2 days of plenary sessions (Jan 12 - 13)





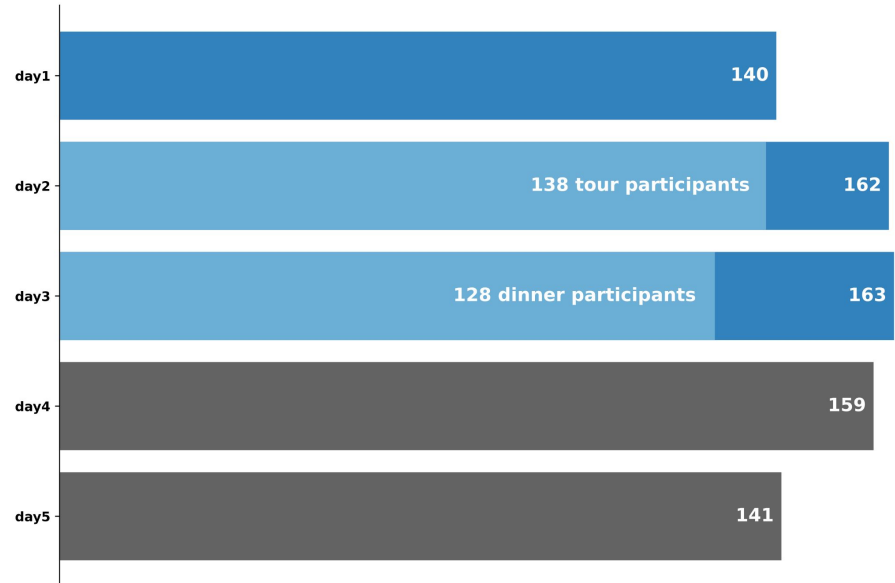
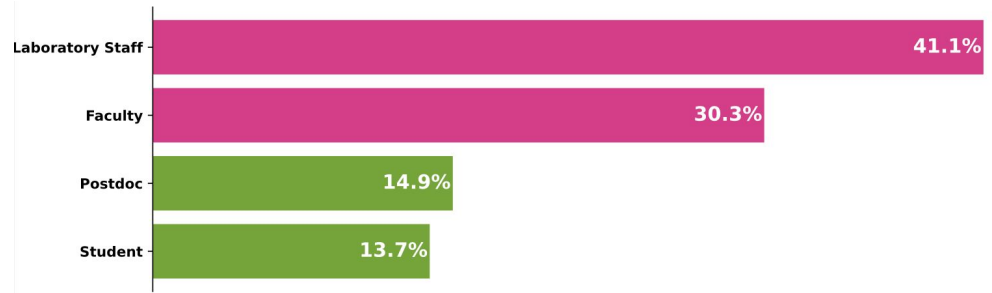
Statistics



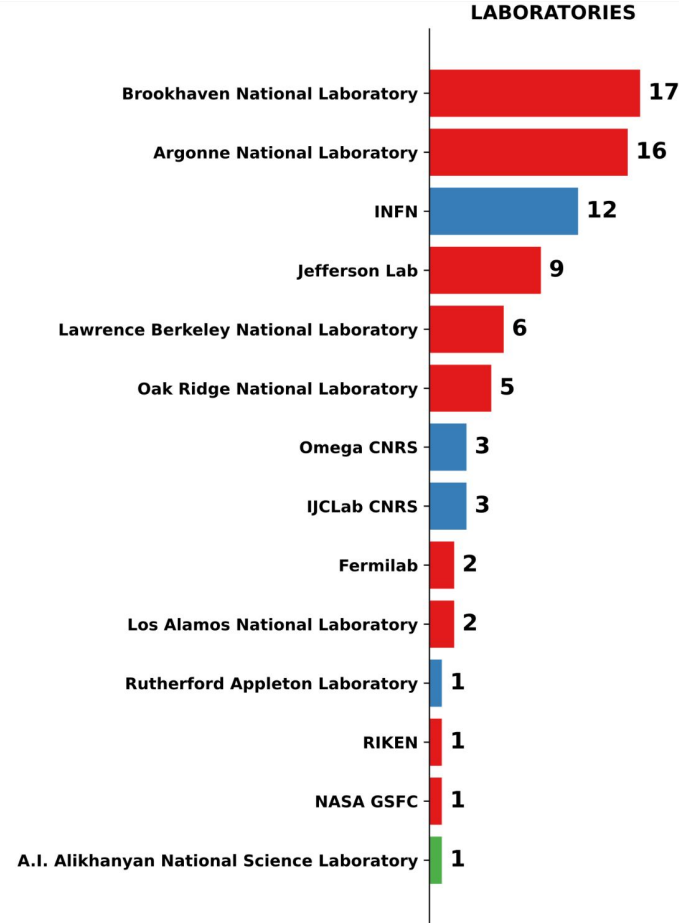
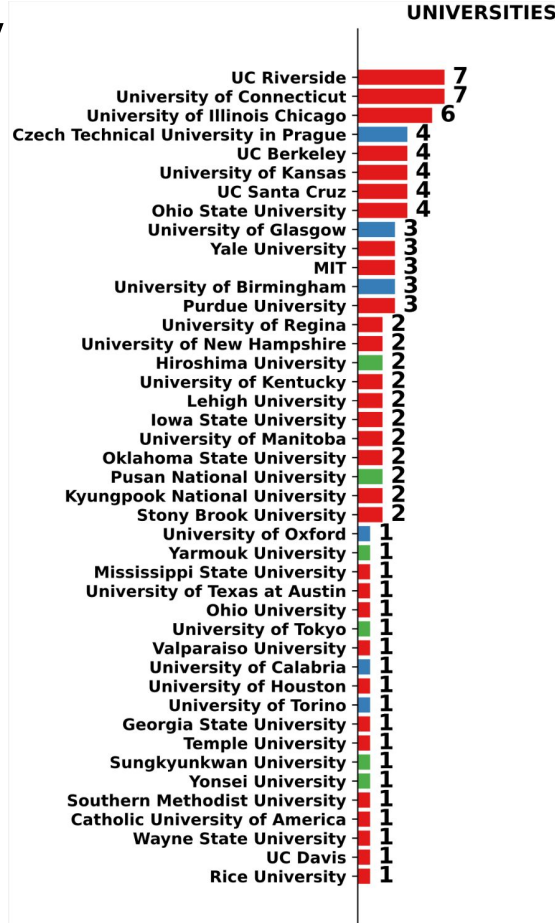
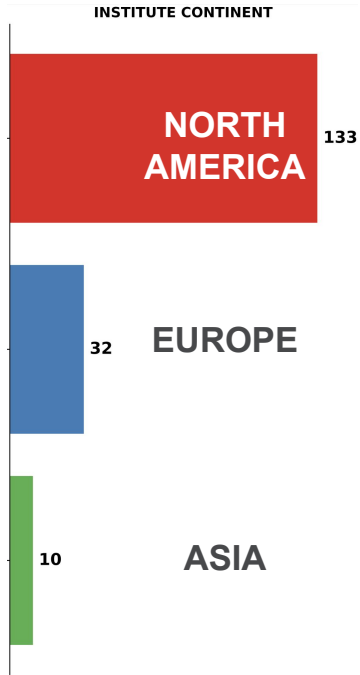
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175 in-person participants

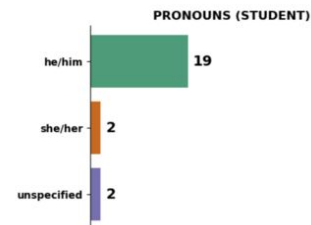
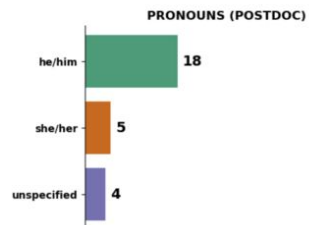
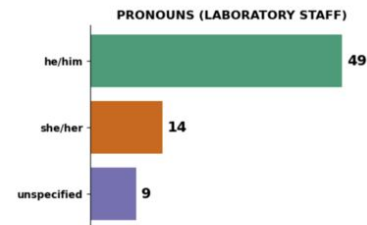
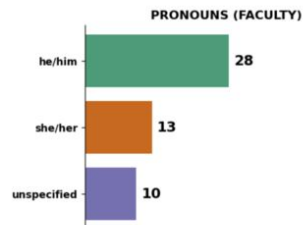
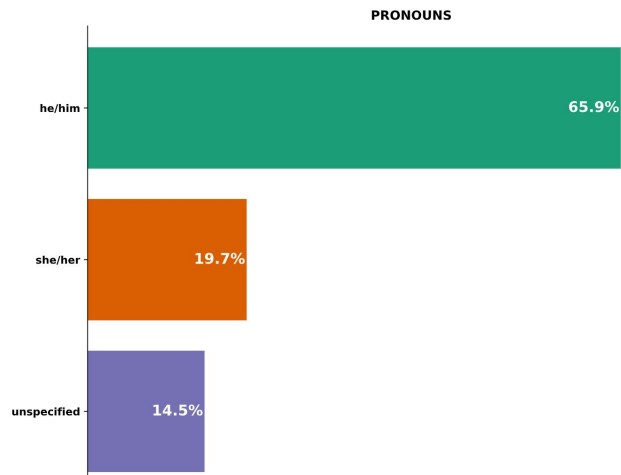
- 29% of registered attendants early career, half of those students (24 students)!
- 14 students requested and received travel support
- Workfests have been very successful, with high in-person attendance and very productive discussions
- Large (in-person and online) participation of institutions that joined recently ePIC



Registration by Institution



Registration by used pronouns



Mirrors overall status in our field

Room for improvement, especially for early-career members

Statistics from Workfests and Plenary Sessions

Day		Session	Sum
Monday 01/09/2023	*	8:00 - 9:45	150
		10:15 - 12:00	157
		13:00 - 14:45	112
		15:15 - 17:00	95
Tuesday 01/10/2023		8:00 - 9:45	162
	*	10:15 - 12:00	133
	*	13:00 - 14:15	112
	*	14:45-15:45	87
Wednesday 01/11/2023		8:00 - 9:45	160
	*	10:15 - 12:00	112
	*	13:00 - 14:45	93
* not all sessions counted			

In-person	Online	Sum
Thursday 01/12/2023		
Council 8:00-10:00		
60	80	140
Plenary 10:30 - 12:30		
87	63	150
Plenary 14:00 - 16:00		
68	40	108
Plenary 16:30 - 18:30		
59	24	83
Friday 01/13/2023		
Plenary 9:00 - 10:30		
67	33	100
Plenary 11:00 - 12:30		
73	21	94
Plenary 14:00 - 15:40		
49	17	66
Plenary 16:10 - 18:20		
39	11	50

Full statistics attached to indico



Thank You!



Other



Argonne National Laboratory is a
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Workfests: TUE

08:00	SVT DSC Ernst Sichtermann, Laura Gonella	AC-LGAD: Detector Requirements and Status Zhenyu Ye	Software Tutorials
09:00		08:00 - 09:45	
10:00	Coffe Break: Coffee Break 09:45 - 10:15	AC-LGAD: Sensor Alessandro Tricoli	
11:00	08:00 - 12:00	10:15 - 12:00	08:00 - 12:00
12:00			

WED

08:00	Barrel ECal DSC: Intro & AstroPix Maria Zurek, Sylvester Joosten	Joint Tracking/Jets... Session Barak Schmookler, Brian Page, Ernst Sichtermann, Laura Gonella, Matt Posik, Olga Evdokimov, Shujie Li	Streaming Comp. Model/Electro... & DAQ Fernando Barbosa, Jeff Landgraf, Jin Huang, Marco Battaglieri, Markus Diefenthaler	FFWD/FBKWD... Diffractive, Tagging and eA Alexander Jentsch, Dhevan Gangadharan, Nathaly Santesteban, Nicholas Zachariou, Rachel Montgomery, Raphael Dupre, Simon Gardner, Zhouning Tu	AC-LGAD: EICROC0 Demonstration Prithwish Tribedy	
09:00	08:00 - 09:45	08:00 - 10:00		08:00 - 09:45		
10:00	Coffe Break: Coffee Break	Tracking Ernst Sichtermann, Matt Posik		Jets & HF Barak Schmookler, Brian Page, Olga Evdokimov, Shujie Li	SVT DSC Ernst Sichtermann, Laura Gonella	
11:00	10:15 - 12:00	10:00 - 12:00	08:00 - 12:05	08:00 - 12:00	10:00 - 12:00	10:00 - 12:00
12:00						

THU

08:00	Barrel ECal DSC: AstroPix Maria Zurek, Sylvester Joosten	Joint Common PID Sim/Tracking Session Ernst Sichtermann, Matt Posik, Oskar Hartbrich, Thomas Ullrich	Jets & HF Brian Page, Derek Anderson, Olga Evdokimov	SVT DSC Ernst Sichtermann, Laura Gonella	FFWD/FBKWD/E... Diffractive, Tagging and eA Alexander Jentsch, Dhevan Gangadharan, Nathaly Santesteban, Nicholas Zachariou, Raphael Dupre, Simon Gardner, Zhouning Tu
09:00	08:00 - 09:45				
10:00	Coffe Break: Coffee Break				
11:00	10:15 - 12:00	08:00 - 12:00	08:00 - 12:00	08:00 - 12:00	08:00 - 12:00
12:00					

13:00	Software & Sim TDR Readiness Markus Diefenthaler, Sylvester Joosten, Sylvester Joosten, Torre Wenaus, Wouter Deconinck	Tracking Ernst Sichtermann, Matt Posik	AC-LGAD: ASIC and interconnection Dominique Marchand
14:00			13:00 - 14:45
15:00		Coffe Break: Coffee Break 14:45 - 15:15	
16:00		AC-LGAD: Electronics Tonko Ljubicic	15:15 - 17:00
17:00	13:00 - 17:00	13:00 - 17:00	

13:00	Barrel ECal DSC: Planning Maria Zurek, Sylvester Joosten	Jets & HF Barak Schmookler, Brian Page, Olga Evdokimov, Shujie Li	AC-LGAD: Detector Module Matthew Gignac	FFWD/FBKWD/Exclusive, Diffractive, Tagging and eA Alexander Jentsch, Dhevan Gangadharan, Nathaly Santesteban, Nicholas Zachariou, Rachel Montgomery, Raphael Dupre, Simon Gardner, Zhouning Tu
14:00	13:00 - 14:15		13:00 - 14:15	
15:00	Coffe Break: Coffee Break 14:15 - 14:45		Barrel ECal DSC: Planning Maria Zurek, Sylvester Joosten	
16:00	14:45 - 15:45	13:00 - 15:45	14:45 - 15:45	13:00 - 15:45
17:00				

13:00	Barrel ECal DSC: Pb/SciFi Maria Zurek, Sylvester Joosten	Common PID Simulations Oskar Hartbrich, Thomas Ullrich	Jets & HF Brian Page, Derek Anderson, Olga Evdokimov	FFWD/FBKWD/Ex... Diffractive, Tagging and eA Alexander Jentsch, Dhevan Gangadharan, Nathaly Santesteban, Nicholas Zachariou, Raphael Dupre, Simon Gardner, Zhouning Tu	Joint Backgrounds + Tracking Barak Schmookler, E. C. Aschenauer, Koja Kauder, Shujie Li
14:00	13:00 - 14:45				
15:00	Coffe Break: Coffee Break				
16:00	15:15 - 17:00	13:00 - 17:00	13:00 - 17:00	13:00 - 17:00	13:00 - 17:00
17:00					

Plenary Sessions

Friday

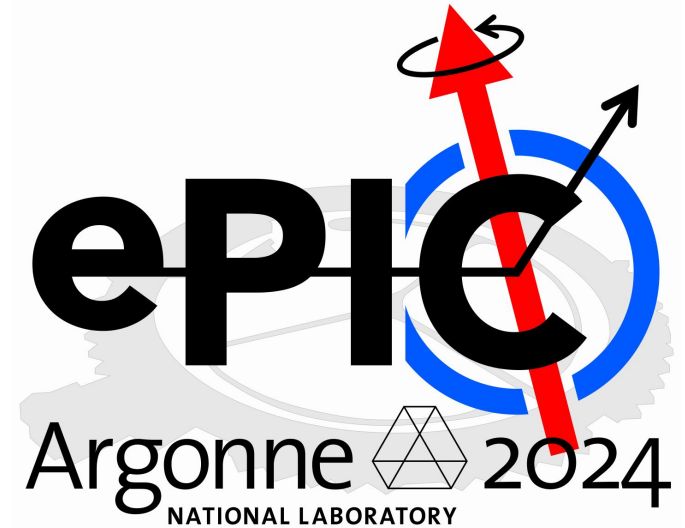
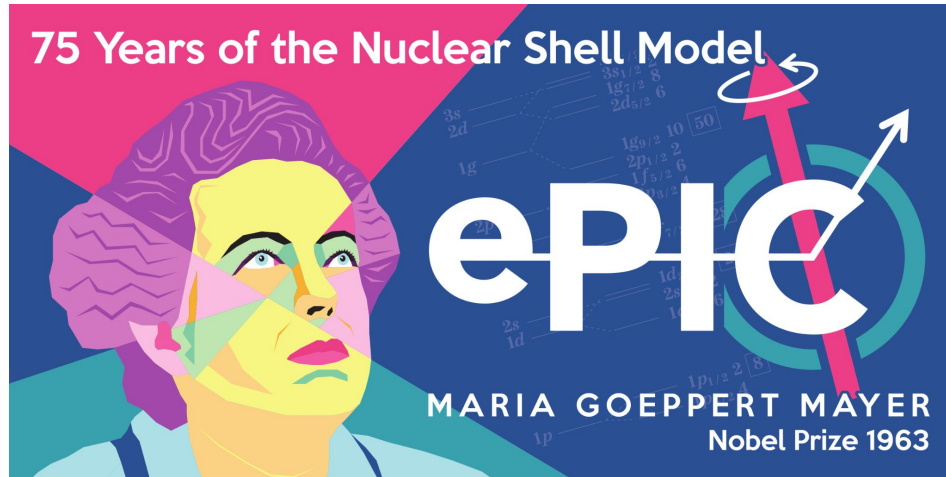
- Council Meeting
 - New Institutions Applicants
 - DEI, Membership, and CTC Committees
- Welcome from the Lab/LOC
- General reports on Collaboration and Project

Saturday

- TDR Planning Discussions
- Reports from Workfests

Registration & Breakfast		
	Atrium, APS Conference Center	08:30 - 09:00
09:00	SVT DSC + Tracking Workfest Report	Ernst Sichtermann et al.
	Auditorium, APS Conference Center	09:00 - 09:30
	Planning for the ePIC TDR Effort	Silvia Dalla Torre
10:00	Auditorium, APS Conference Center	09:30 - 10:30
	Coffee Break	
	Atrium, APS Conference Center	10:30 - 11:00
11:00	Planning for the ePIC TDR - Discussion	John Lajoie et al.
	Auditorium, APS Conference Center	11:00 - 11:40
	AC-LGAD DSC Workfest Report	Alexander Jentsch
	Auditorium, APS Conference Center	11:40 - 12:05
12:00	Barrel ECal DSC Workfest Report	Jessica Metcalfe
	Auditorium, APS Conference Center	12:05 - 12:30
	Lunch	
13:00		
	Lower Gallery, APS Conference Center	12:30 - 14:00
14:00	FFWD/FBKWD/Exclusive/Diffraction and Tagging Workfest Report	Alexander Jentsch et al.
	Auditorium, APS Conference Center	14:00 - 14:25
	Jets and HF Workfest Report	Barak Schmookler et al.
	Auditorium, APS Conference Center	14:25 - 14:50
15:00	PID Workfest Report	Matt Posik et al.
	Auditorium, APS Conference Center	14:50 - 15:15
	Backgrounds + Tracking Workfest Report	Barak Schmookler et al.
	Auditorium, APS Conference Center	15:15 - 15:40
	Coffee Break	
16:00	Atrium, APS Conference Center	15:40 - 16:10
	Simulation and Software Readiness for the TDR	Markus Diefenthaler et al.
	Auditorium, APS Conference Center	16:10 - 16:40
	Simulation and Software Readiness for the TDR - Discussion	Markus Diefenthaler et al.
17:00		
	Auditorium, APS Conference Center	16:40 - 17:40
	Self-Proposed Contributions - Part 2	
18:00	Auditorium, APS Conference Center	17:40 - 18:10

Special ePIC Sticker - Argonne Edition



Why Maria Goeppert Mayer?

75 Years of the Nuclear Shell Model!

- In 1949 M. Goeppert Mayer and H. Jensen (independently) developed and published a model in which nucleons were distributed in shells with different energy levels.

Maria Goeppert Mayer and Argonne (1946-1960)

- In 1946, Maria received a faculty appointment, splitting her time between the University of Chicago's Institute for Nuclear Studies and the newly opened Argonne National Laboratory, as a **Senior Physicist in the Theoretical Physics Division**.
- It was during this time that she developed the nuclear shell model, the work for which she was awarded the **Nobel Prize in Physics in 1963**, shared with Hans Jensen and Eugene Wigner.



Learn more: <https://www.nobelprize.org/prizes/physics/1963/mayer/biographical/>
<https://www.anl.gov/phy/maria-goeppert-mayer-argonnes-nobel-laureate>

You reposted



Rachel Montgomery

@physicsrachelm

...

Enjoying a productive and snowy ePIC collaboration meeting at Argonne discussing exciting #ElectronIonCollider topics. Really love the sticker celebrating Maria Goepfert Mayer and her developments of the nuclear shell model 🤍🌀



10:13 PM · Jan 12, 2024 · 399 Views



You reposted

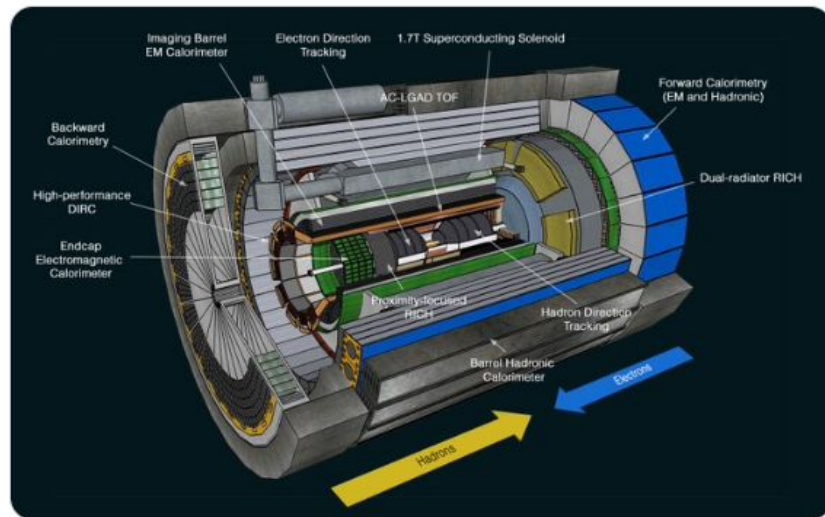


LBNL Nuclear Science Division

@LBNLnuclearsci

...

As the ePIC detector for the electron-ion collider moves ahead, LBNL researchers joined the rest of the ePIC collaboration for a meeting and workfest at @Argonne National Lab. jlab.org/epic-argonne



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Fun!

- Collaboration dinner attended by 126 people
- Wednesday tours to ALCF and APS Facilities well attended
- Countless discussions in Argonne Guest House

