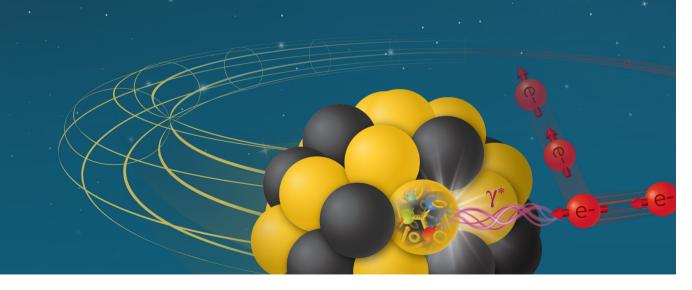


Marta Ruspa and Elke Aschenauer on behalf of the EIC-UG/ePIC Outreach Group

ePIC Collaboration Meeting Frascati, January 24th 2025





ePI

A EIC-UG/ePIC Outreach Group was born!

- Outreach concept presented by Elke at RRB meeting in June '24 and at Leheigh EIC-UG /ePIC https://indico.bnl.gov/event/20727/contributions/93765/attachments/56042/95896/EIC.ePIC.OutReach.pptx
- Asked for endorsement forming a working group (WG) spanning the EIC-UG / ePIC at the September EIC-UG steering committee meeting including the ePIC spokespeople
- Recruitment of the WG members: would like to avoid to have elections as it should be a group of volunteers endorsed by their country
 - → contact country PIs to nominate a member
 - → would like to have people from Asia, Europe, Afrika and Americas
 - → everybody who wants to do real work is of course welcome

Following members have been nominated:

Senegal Dr. Sokhna Bineta Amar

France: Dr. Silvia Niccolai

Czech Republic: Prof. Jana Bielcikova

Taiwan: Prof. Yi Yang

UK: Prof. Rachel Montgomery

Armenia: Dr. Hrachya Marukyan

India: Prof. Md Nasim

Japan: Prof. Taku Gunji

Israel: Prof. Zvi Citron

Italy: Marta Ruspa

Mailing list: eic-outreach-wg@lists.bnl.gov,

Website (soon): https://wiki.bnl.gov/EPIC/index.php?title=EICOutreach

First steps taken for/at this meeting



Poster contest

Photo contest

Not only fun and people involvement but also way to collect

- images documenting these early years
- material for outreach
- → Proposal to have regular such contest calls at each collaboration meeting
- → Plan to organize a repository of the collected material

First steps taken for/at this meeting



■ Poster contest Category 1: A poster on EIC Science or the ePIC detector for high-school students

Category 2: A poster on **EIC Science or the ePIC detector** for **scientists**,

not experts in ePIC, EIC or DIS

Category 3: Accelerator - posters on the EIC accelerator, for scientists,

not experts in accelerators/colliders

Call will be left open until mid June and posters awarded in summer EIC-UG/epic meeting

Photo contest

Instructions for poster contest



If you are interested to participate please enter your information into the following word file PosterContest.docx https://brookhavenlab.sharepoint.com/:w:/s/EICPublicSharingDocs/Ec0kq7PEzqNCq1CLMZbwDZgBz_fpveRuLlJjaR1u5HYrBA?e=9oeAg8

To submit your poster please post to

Category 1:

https://brookhavenlab.sharepoint.com/:f:/s/EICPublicSharingDocs/EhmXoa-n2j1lgRnDBuh-foEBrd9dD4vr6l9xell0D3UuvA?e=ISfaQb

Category 2:

https://brookhavenlab.sharepoint.com/:f:/s/EICPublicSharingDocs/EgrUHNNbNT1Cm-iV 8rqVP0BUtKw82qNv03oLJKaFqib7Q?e=htnozO

Category 3:

https://brookhavenlab.sharepoint.com/:f:/s/EICPublicSharingDocs/EjIAVcbPJYpCsisLTVKELtQBJmzV3i-QDWWHV818RHVUVg?e=lvcqLT

The name of the file should please contain your name, the category you want to submit to as well as if it is a poster on science or the detector. >

Call will be left open until mid June and posters awarded in summer EIC-UG/epic meeting

Photo contest

Photos to be submitted by a member of ePIC Max 3 photos per member.

Max two preferences could be expressed.

15 photos received129 people voted

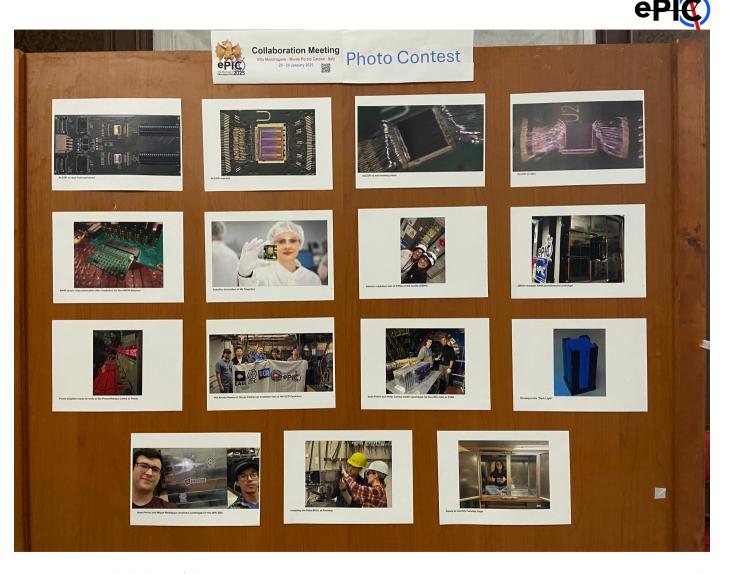


Photo contest



Photos to be submitted by a member of ePIC Max 3 photos per member.

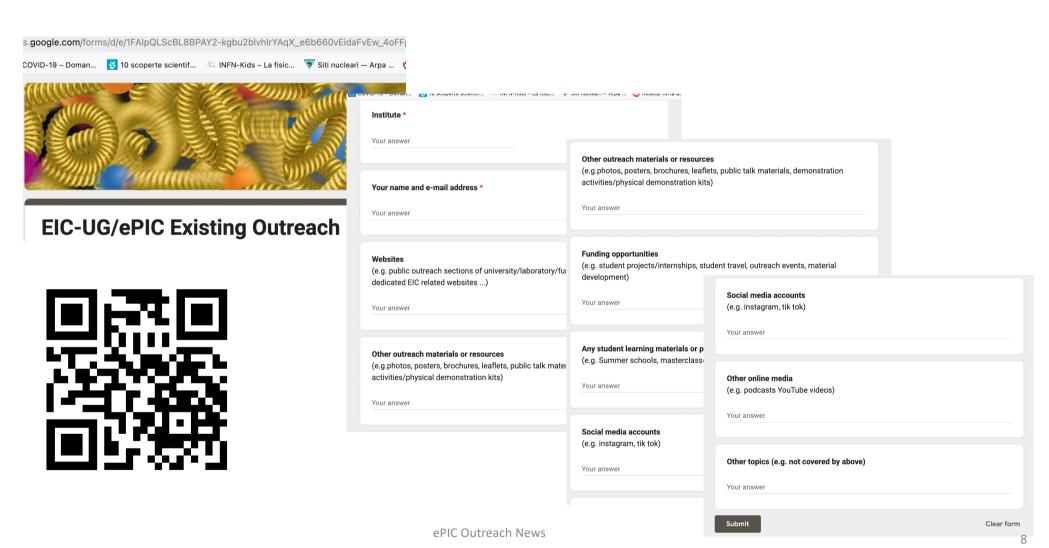
Max two preferences could be expressed.

15 photos received129 people voted



Survey of existing initiatives





Next steps



When we will have a picture of all existing initiatives we will

- organize material in categories/repositories
- make, when possible, material/initiatives shareable/usable by all collaborators in their counties
- start promoting/organizing new initiatives



EXAMPLE OF EXISTING ACTIVITIES INSIDE ePIC

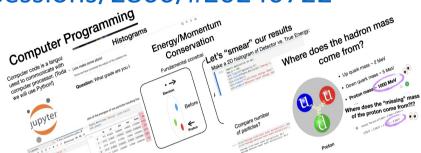
Hands-on



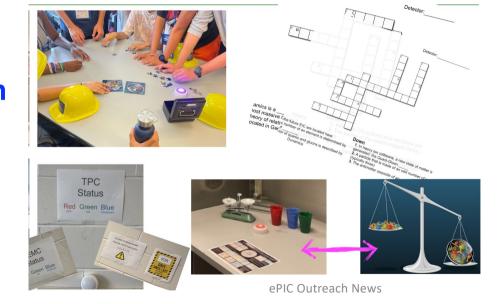
Interesting suggestion from Fernando Flor (Yale Univ)

https://indico.jlab.org/event/855/sessions/2866/#20240722

«Let us smash some protons» exercize with Jupiter Notebook



Escape room



Videogames



https://gamedev.msu.edu/quantum3/

TEAM

Huey-Wen Lin - Principal Investigator

Brian Winn - Executive Producer

William Jeffery - Producer

Tristan Özkan – Game Designer and Programmer

Harrison Sanders – Game Designer and Programmer

Rebecca Roman - Sound Designer

Roman Firestone - Artist

Colleen Little - Artist



Quantum 3 is an educational match-3 game for all ages where fun meets quantum physics!

tomic particles, learn about the mysteries of fundamental physics and deploy antimatter to clear the way! You'll match and swap nake (and learn about) the baryons you need for each objective. Puzzle out the quantum properties of color, flavor and spin. So get in start your quantum-venture! Quantum 3 is puzzle-matching at its finest and a great intro to the world of particle physics!

Release Date: January 2019











Podcasts



Feedback Episodes

Strong Interactions is a podcast about exploring a new frontier in nuclear physics at the upcoming Electron-Ion Collider, by Maria Żurek and Markus Diefenthaler.



Strong Interactions

ePl

Summer schools

- CFNS EIC QCD Summer School at Stoney Brook since 2019
- Summer School in Europe:

Calabria, Italy 2023
Spain 2025 (see Charlotte's talk on Monday)

■ 1st EIC QCD School for **Asia**: <u>India 2024</u> — to be run across Asian EIC participating countries



EIC Latin America

Pachuca, Hidalgo → at the "Outskirts" of Mexico City. About 1 hour drive from any of the two Mexico City airports

Slide from Daniel (jdtt@ku.edu)

https://indico.ku.edu/event/478/

Program: May 19 – 21, 2025

- Scientific program starts on May 19 in the morning
- Excursion to the Teotihuacan pyramids on Tuesday, May 20 in the afternoon
- On May 21 overlaps with the annual meeting of the Mexican Physical Society high-energy particle and nuclear physics division (May 21-23). The EIC Latin America meeting will finish on May 21, around lunch time, but all are invited to join the "Mexican APS DNP"









IDEAS FOR NEX INITIATIVES

more in Elke's previous talks, e.g.

https://indico.bnl.gov/event/20727/contributions/93765/

Mobility programs

Summer programs for Undergrads and PhD students both Scientists and Engineers

US: most DOE sponsored programs are only for US nationals & green card holders

→ establish an exchange program to spend a summer at a US national lab involved in EIC

Develop mobility program such that student from country A participates in project at country B → hardware / engineering projects might be beneficial

Opportunities for Scientist at all career stages
 (Support for visiting scientist program has long tradition both at BNL and Jlab)

Getting inspired by LHC-related activities

- could join the International Particle Physics Outreach Group (IPPOG)
 - ➤ a recognized pillar for HEP → integrated in European Strategy for Particle Physics

2013: Outreach and communication in particle physics should receive adequate funding and be recognized as a central component of the scientific activity. EUROPEAN PARTICLE PHYSICS COMMUNICATION NETWORK (EPPCN) and IPPOG should both report regularly to the Council



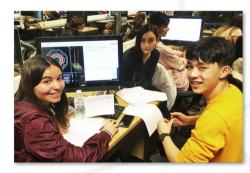
Two related domains & groups

Communication: EPPCN

- Develop messages & strategies
- Optimise platforms & networks
- · Create effective material

Education & Outreach: IPPOG

- Further develop direct contact with public
- Build trust in & understanding of scientific process
- Train the next generation of scientists
- Share good practises across the community



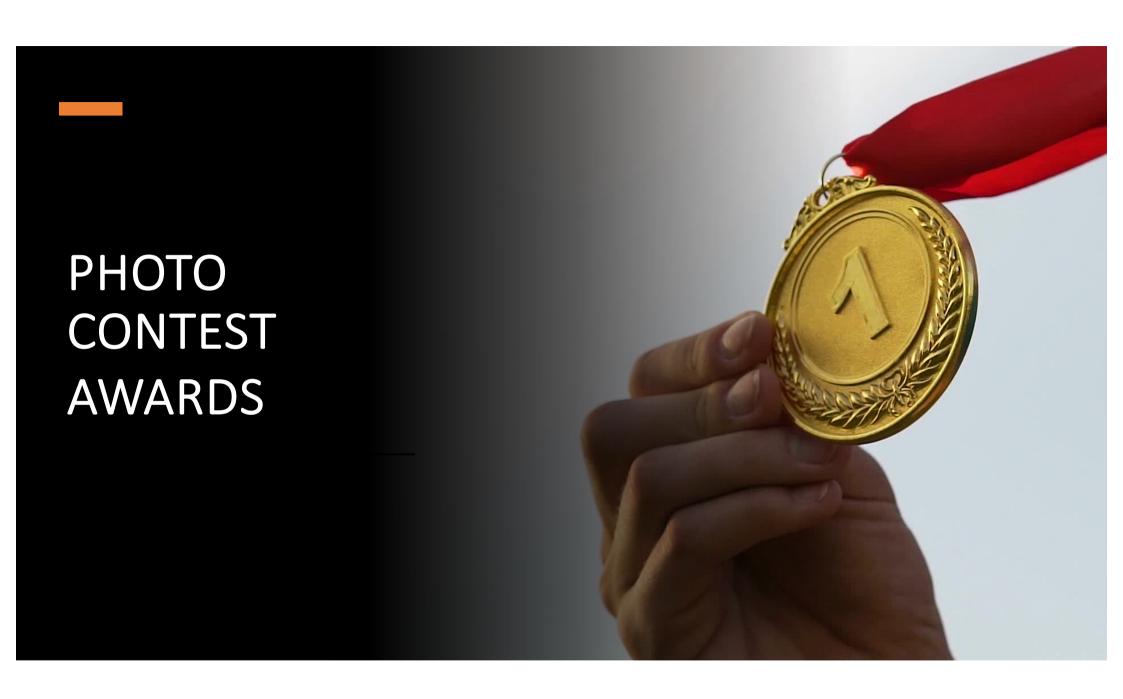
EPPCN: https://espace.cern.ch/EPPCNsite/ layouts/15/start.aspx - /EPPCN Web Page/Home.aspx

IPPOG: https://ippog.org



Elke's talk at the Summer 2024 Leheigh Joint EICUG-ePIC session

https://indico.bnl.gov/event/20727/contributions/93765/





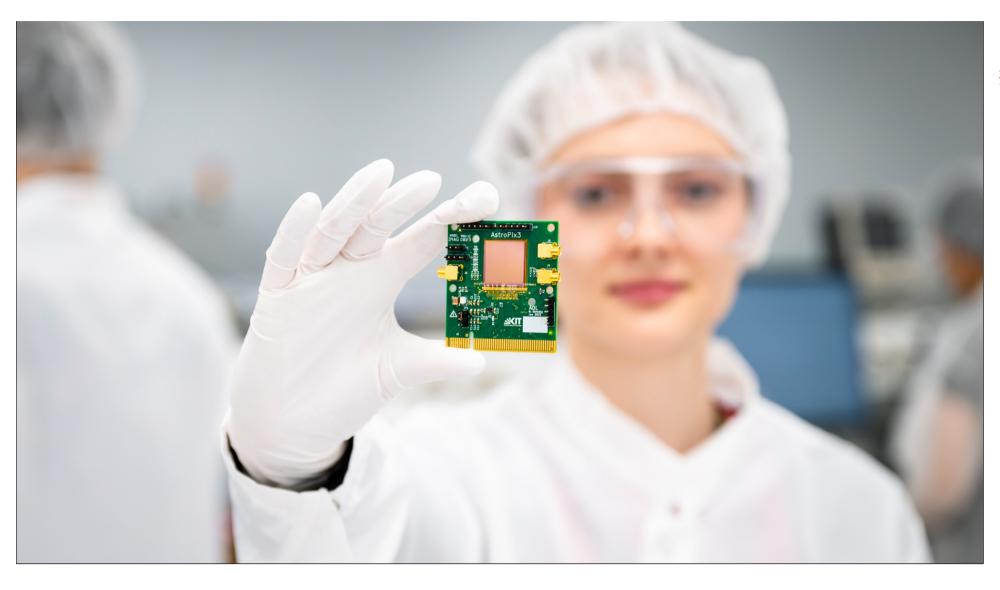


Glowing in the «Dark Light»

Praktar Garg









AstroPix: Innovation at My Fingertips

Maria Zurek



A W A R

