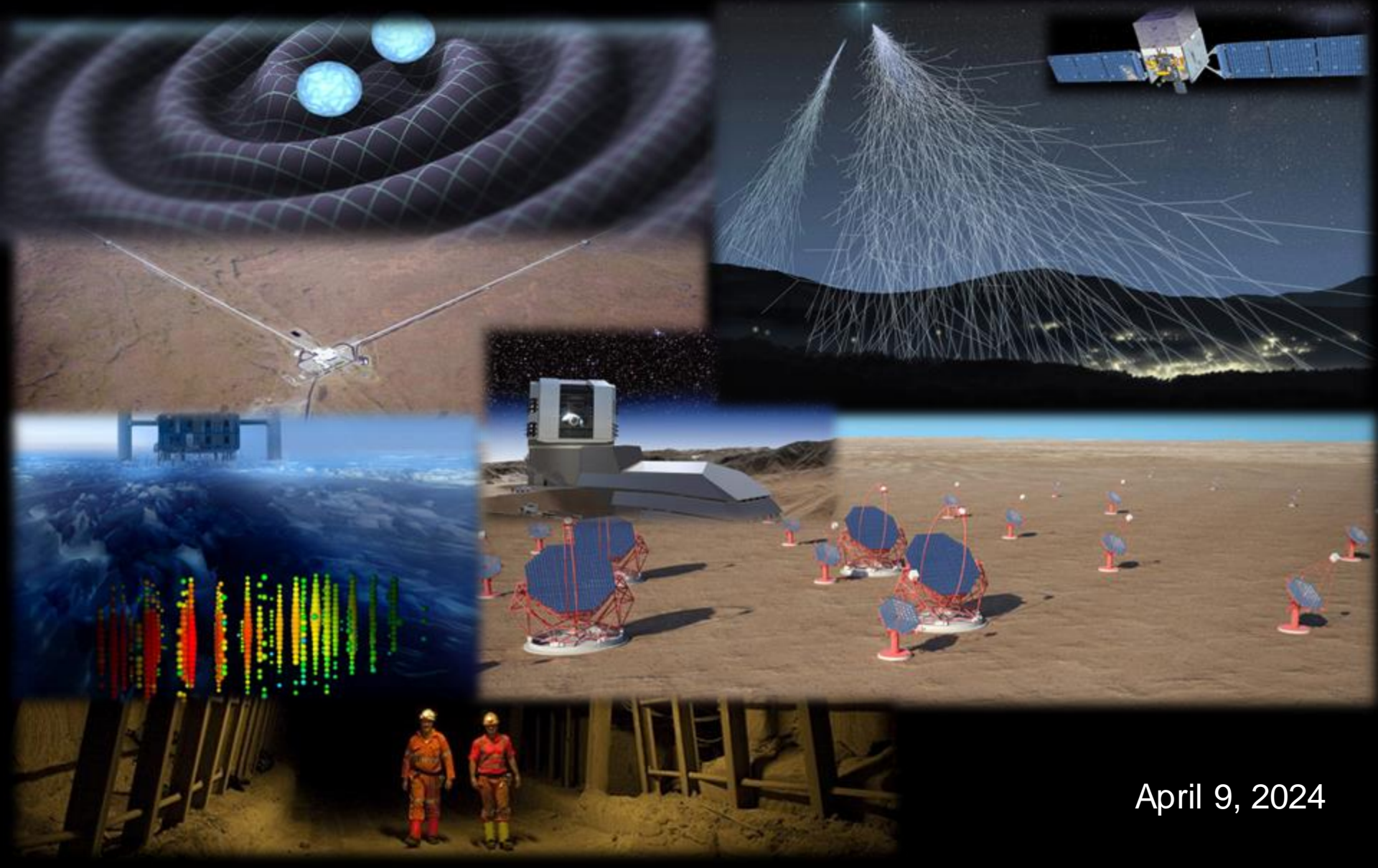


IoP APP Annual General Meeting



April 9, 2024

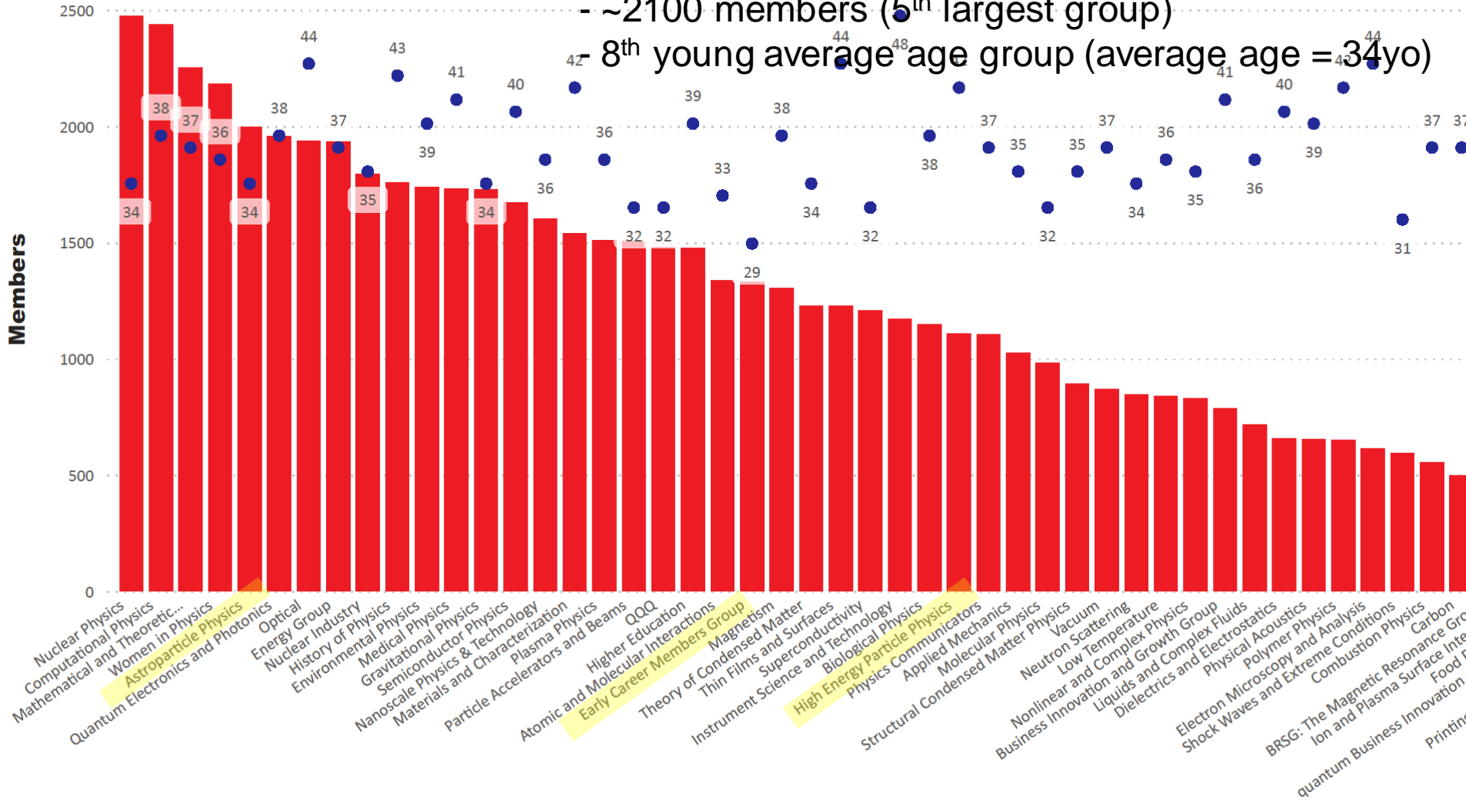
IoP Astroparticle Physics by the numbers

● Members ● Age (Average)

One of the largest working groups in the IoP

~2100 members (5th largest group)

8th young average age group (average age = 34yo)

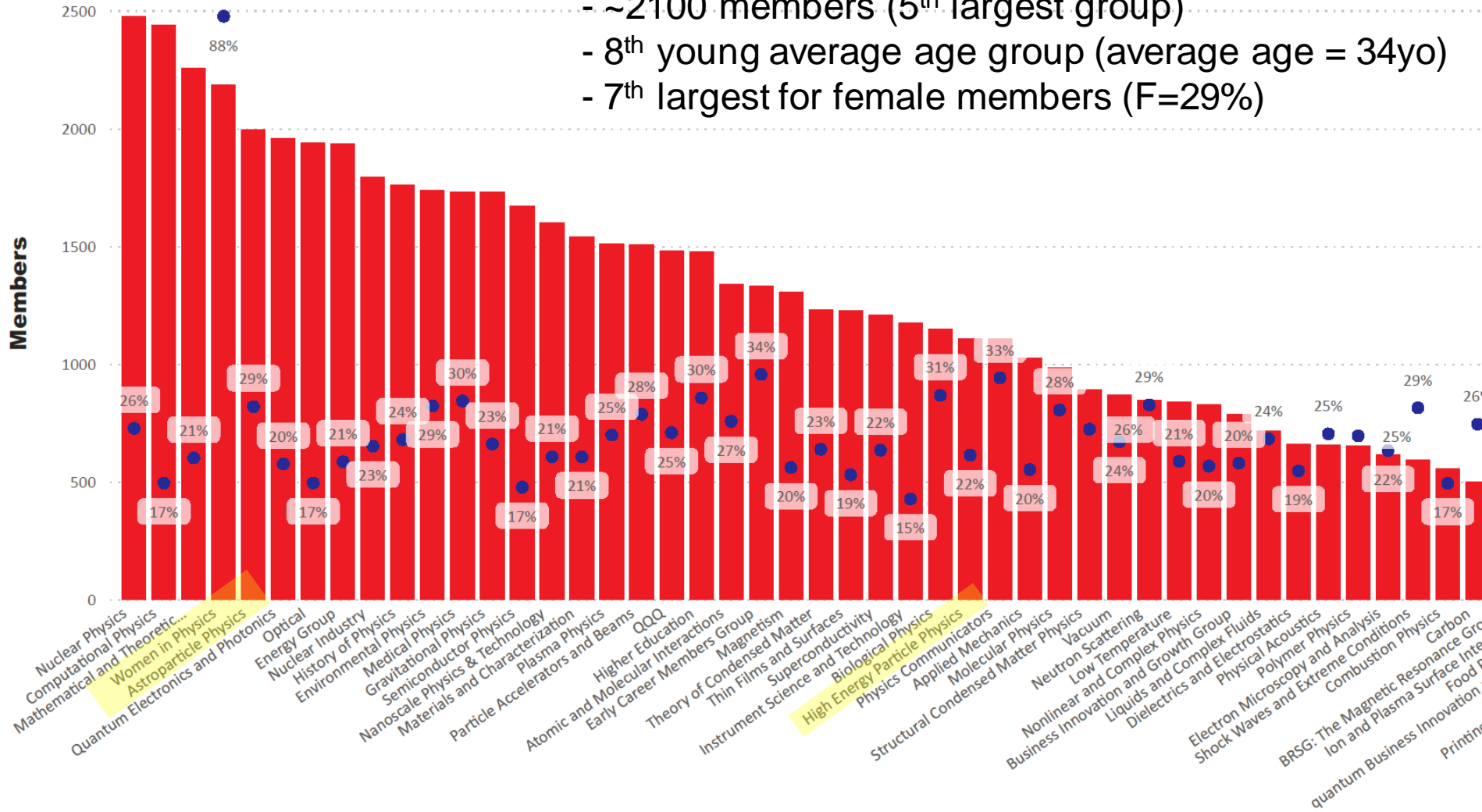


IoP Astroparticle Physics by the numbers

● Members ● Female %

One of the largest working groups in the IoP

- ~2100 members (5th largest group)
- 8th young average age group (average age = 34yo)
- 7th largest for female members (F=29%)



IoP APP social media

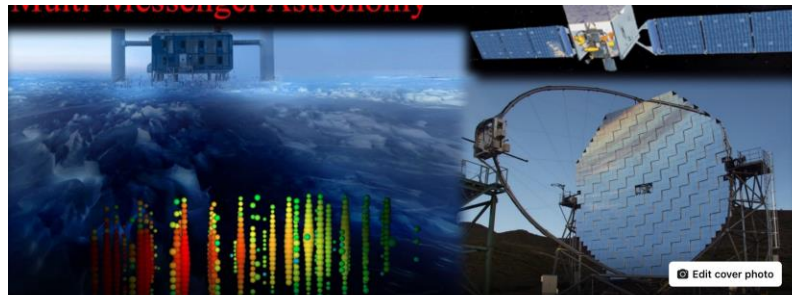
Website

<https://www.iop.org/physics-community/special-interest-groups/astroparticle-physics-group>

Facebook (3.9k likes, 2024/04/08), <https://www.facebook.com/IOPAPP/>
(2023/04, 3.1k likes)

Twitter (263 followers, 2021/04/01), https://twitter.com/IOP_APP
(2023/04, 219 followers)

Do we want to open other page, LinkedIn?



IOP
Institute of Physics
Astroparticle Physics group

3.8K likes · 3.9K followers

Advertise Manage Edit

Posts About Mentions Reviews Followers Photos More

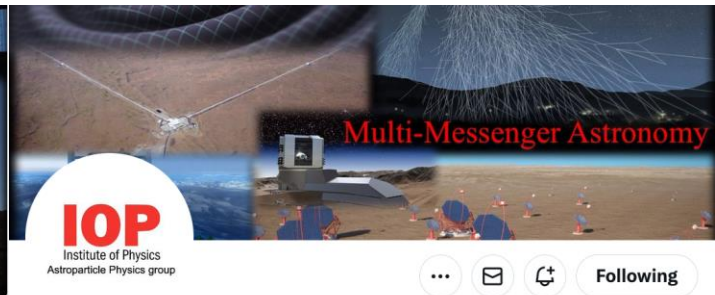
How healthy is your Page?

Complete these actions to keep improving Institute of Physics Astroparticle Physics.

Page health: good

IOP What's on your mind?

Live video Photo/video Reel



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@IOP_APP Follows you

This is an unofficial account to promote the Institute of Physics (IOP) Astroparticle Physics group (APP). Join IOP today! [iop.org/membership/](https://www.iop.org/membership/)

Joined May 2020

27 Following 263 Followers

Followed by KCL Experimental Particle & Astroparticle Physics, Patricia Schmidt, and 22 others you follow

IoP APP group committee members

red: role
blue: covered field



Matt Roth (Australia Nat'l U)
- Global member
- Engineer/astronomy



Cheryl Patrick (Edinburgh)
- Secretary
- HEPP liaison
- Neutrinoless double beta decay



Teppei Katori (King's College)
- Chair
- Neutrino astronomy



Chris McCabe (King's College)
- Treasurer
- DMUK liaison
- Astroparticle physics theory



Emma Meehan (Boulby lab)
- Outreach committee chair
- Engineering representative
- Underground lab



Ian Harry (Portsmouth)
- Gravitational wave



Garret Cotter (Oxford)
- Gamma-ray astronomy



Athoy Nilima
UK Atomic Energy Authority
- Newsletter committee chair
- Direct dark matter search

- Dr. R. Anthony Bloodworth (Retired)
- Dr. Praveen Kumar Dhankar (Rashtrasant Tukadoji Maharaj Nagpur University, India)
- Aditya Naik (Queen Mary University of London)

Open roles

- Student conference organizer
- Prize selection committee chair
- Chair (Sept. 2024)
- Treasurer (Sept. 2024)

Not covered area

- Direct dark matter search
- Nuclear astrophysics
- UHECRs
- etc

IoP APP topics

Gravitational wave

Neutrino astronomy

GW and γ -ray

These fields are from different communities and usually don't attend the IoP APP-HEPP conference

APP

Neutrinoless double-beta decay

Gamma-ray astronomy

Direct dark matter search

$0\nu\beta\beta$, APP or HEPP?

$0\nu\beta\beta$ is traditionally an APP topic, because European astroparticle physics strategy (APPEC) includes it

However, $0\nu\beta\beta$ is HEPP by STFC, and it is NP by DOE

Topics are not limited to these five

- Nuclear astrophysics
- Ultra-high-energy cosmic rays
- etc

2023 Newsletter

<https://www.iop.org/physics-community/special-interest-groups/astroparticle-physics-group>



Athoy Nilima
 UK Atomic Energy Authority)
 - Newsletter committee chair

2023 Newsletter

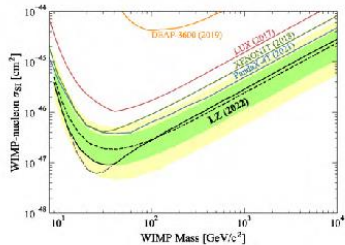
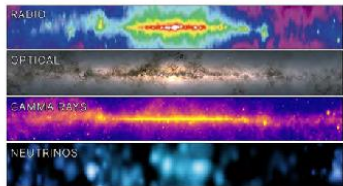
<https://www.iop.org/physics-community/special-interest-groups/astroparticle-physics-group>

The newsletter will be published every year. Please contact Athoy Nilima (athoynilima@gmail.com) if you have a topic to be included in the next Newsletter, to be published in Dec. 2024.



Newsletter 2023-24

Issue No. 13



Astroparticle Physics Group Newsletter

February 2024

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2023 APP Early Career Researcher Prize

IOP APP ECR Prize 2023

<https://www.iop.org/physics-community/special-interest-groups/astroparticle-physics-group/app-thesis-prize>



2023 APP Early Career Researcher Prize

Dr. Patrick Knights (University of Glasgow)

For contributions to direct dark matter searches, including R&D on spherical proportional counters for the NEWS-G experiment and low-radioactivity techniques.



Astroparticle
Physics group

IOP
Institute of Physics

**Joint APP, HEPP and NP
Conference**

8-11 April 2024
The Spine, Liverpool, UK



2024 APP Thesis prize

IOP APP Thesis Prize 2024

<https://www.iop.org/get-involved/special-interest-groups/astroparticle-physics-group/app-early-career-prize>

The call will be end around early 2025. Details will be circulated later of this year. Nominees are early career researchers who:

- work in the area of astroparticle physics (both experiment and theory)
- work in any institution in the UK and Ireland
- Thesis has been submitted

Nomination process

- Two nominators are required. At least one of them should be the thesis supervisor or external examiner.
- Nominations must include electronic copy of the thesis.

Funding opportunities

IoP APP group funding for workshops & conferences

IoP APP financially support various workshops and conferences. Please write up one page proposal follow the instruction in the newsletter. If the event is organized by IoP APP group only, the guidance of subsidy is up to £500 (half-day event) or £1000 (one-day event), In the event that **more than one group** wishes to organise a joint meeting the recommended maximum subsidy will increase by 50%. For details, please contact IoP APP chair (Teppei Katori, teppei.katori@kcl.ac.uk).

IoP Research Student Conference Fund

IoP APP provides a financial support for IoP member PhD students to attend conferences with up to £300 is awarded for a single trip. Applications run on a quarterly basis. Please send your applications before; 1st March, 1st June, 1st September, 1st December. Applications must reach us three months in advance of the conference you plan to attend, for more information see:

https://www.iop.org/about/grants/travel-bursaries/research_student/page_38808.html

Please follow the link, download an application form, and return to supportandgrants@iop.org.

Treasury Report - Budget



Chris McCabe (King's College)
- Treasurer

For 2023 the Astroparticle Physics group had a budget of £6900.

➤ Committee Expenses	- £141
➤ Branch & Group Conferences	- £1,500
➤ External Conference Support	- £1,750
➤ Newsletter & Communication	- £0
➤ Subscriptions and Affiliations	- £0
➤ Prizes & Awards	- £646
➤ Branch & Groups General Expenditure	- £0
In total we spent	- £4,037

For 2024, £6,090 is allocated to the Astroparticle physics group activities.

❖ IOP APP/HEPP/NP Conference	- £1,700
❖ Student Conference	- £850
❖ APP Workshop	- £850
❖ DMUK Conference	- £850
❖ Other conferences	- £1,275
❖ Durham theory school	- £425
❖ APP Thesis Prize + Poster Prize	- £440
❖ Group Budget	- £510

Under-spent is epidemic

2025 APP-HEPP joint annual meeting

APP group event list 2024

April 8-11: APP-HEPP Conference

July: APP student conference? (no student conference in 2023)

May: Dark Matter UK conference

October: Dark Matter Day, worldwide

December: Phenomenology school at Durham

Anything else?

Budget allocation for additional 2-3 workshops (hopefully cross-group workshops), and a student conference. We are still affected by the pandemic and all plans are very flexible.

APP student conference 2022

<https://www.iopconferences.org/iop/frontend/reg/thome.csp?pageID=1130407&eventID=1841&traceRedir=2>



APP outreach improvement plan (APPOIP)

APP is one of the youngest group, full of energy with extremely interesting science.
What kind of outreach activities can we do?

IoP Limit less

APP is one of the youngest group, full of energy with extremely interesting science. What kind of outreach activities can we do?

Limit Less is the IoP campaign to support young people to change the world and fulfil their potential by doing physics
<https://www.iop.org/about/strategy/limit-less>

2.6% girls choose A-level physics (8.6% boys)

8.1% of students from the highest income groups choose physics A-level, but 2.7% from the lowest income group

Ethnicity background dependence
Caribbean < European, African < Asian

"I was told I was not smart enough for physics and that if I didn't want to be an engineer there was no point."

"When you hear of someone who's done A-level physics or as a degree you go ooh, you must be clever"

Father in focus group,
Wales

"I was told by a close female family member that physics was boring and a waste of time. I found out I was actually really good at it. Absolutely one of the most interesting and fascinating fields of study."



IoP Limit less

APP is one of the youngest group, full of energy with extremely interesting science. What kind of outreach activities can we do?

Limit Less is the IoP campaign to support young people to change the world and fulfil their potential by doing physics
<https://www.iop.org/about/strategy/limit-less>

Bin the Boffin

A campaign to make physics in the media accessible to all
<https://www.iop.org/strategy/limit-less/bin-the-boffin>

