



HEPTech

Chair: Wigner, A. Telcs

HEPTech Board meeting December 2024

HEPTech Members 2024



2024: 13 HEP Tech members from 13 European countries



Agenda

09:30 - 09:35	Quorum and Proxies
09:35 - 09:40	Approval of the Agenda
09:40 - 09:45	Approval of the last Board Meeting Minutes
09:45 - 10:00	Report: Finances and Expenses
10:00 - 10:15	Information: Events and Meetings, HEPTrepreneurs series, Communication activities
10:15 - 10:45	BP: Cryogenics Days contribution Communication officer GSI in kind Contribution ESS in kind contribution
10:45 - 11:30	Organisation's TT Highlights 3-5 min per organisation
11:30 - 11:50	Outlook for 2025
11:50 – 12:00	AOB



Quorum & proxies

Delegate	Institute	Attending meeting in person?	Attending meeting via Zoom?	Vote/e-vote	Name of Proxy	Total
Christine Darve	ESS	Yes		1		1
Giovanni Anelli	CERN	Yes		1		1
Michele Barone	Demokritos	Yes		1		1
Martina Bauer	GSI	Yes		1		1
Zoltan Gyarmati	ELI ALPS Hu		Yes	1		1
Bojil Dobrev	Sofia University		Yes	1		1
Elizabeth Bain	STFC	Yes		1		1
Sorin Martiou	IFIN-HH	Yes		1		1
Ales Hala	ELI ERIC		Yes	1		1
Manuel Rolo	INFN		Yes	1		1
Levai Peter/Tandi, Zsuzsanna	Wigner Institute of Physics		Yes	1		1
Jan Jadovsky/Slavka Jadlovska	University of Kosice			1		0
						11
					Number of Nodes	12
					Quorum	0.92



Finances DEC 2024 (1.1.24-5.12.24.)

Budget Code	Order Code	Order Description	Group by Document Number	Parent Agreement	First Entry Date	Charged to Budget Code (CHF)
35023	AC0227332	HEPTech Membership 2024	AC0227332	10575330	03.10.2024	1,408.80
35023	ATRBOU B353418YX	MFBC35023 to Def. Rev	B353418YX		01.01.2024	(45,535.81)
35023	CA1102928	Comm officer services Sep-Dec 2023	Invoices	10106607	26.02.2024	3,600.00
35023	CZ1212330	Sponsorship AIME Wigner events	Invoices	10164873	14.11.2024	3,619.91
35023	FL1084190	VENTURI/VALENTINA	Invoices	10000371	05.02.2024	(82.20)
35023	IN0227140	HEPTech Membership Fee 2024	IN0227140	9755382	19.09.2024	(1,416.45)
35023	IN0227145	HEPTech Membership 2024	IN0227145	10290460	19.09.2024	(1,416.45)
35023	IN0227146	HEPTech Membership 2024	IN0227146	10290545	19.09.2024	(2,832.90)
35023	IN0227148	HEPTech Membership 2024	IN0227148	10290532	19.09.2024	(1,416.45)
35023	IN0227153	HEPTech Membership 2024	IN0227153	10290473	19.09.2024	(1,416.45)
35023	IN0227160	HEPTech Membership 2024	IN0227160	10290510	19.09.2024	(1,416.45)
35023	IN0227324	HEPTech Membership 2024	IN0227324	10575338	03.10.2024	(1,408.80)
35023	PAYCL K010000371	VENTURI (123868) Official travel expenses 10000371	K010000371	10000371	18.01.2024	122.00
35023	PAYCL K010406729	VENTURI (123868) Official travel expenses 10406729	K010406729	10406729	22.10.2024	342.73
35023	PAYCL K010412684	DISSING (90920) Sundry Expenses	K010412684	10412684	16.07.2024	52.53
35023	TRSIT B355128.33	MFBC35023 to Def. Rev	B355128.33		30.06.2024	41,896.01
35023	TRSIT B355128X33	MFBC35023 to Def. Rev	B355128X33		01.07.2024	(41,896.01)
35023	TRSIT B355799.32	MFBC35023 Def.Rev.	B355799.32		30.09.2024	51,758.63
35023	TRSIT B355799X32	MFBC35023 Def.Rev.	B355799X32		01.10.2024	(51,758.63)
Total						(47,795.99)



Budget and estimated Spend for 2025

Date	Outgoings CHF	Income CHF	Detail	Total CHF
05.12.24		47,795.99	Carried over end of 2023	47,796
Jan to December 2025	-10,000		Communication Officer (CO) services	37,796
Jan to December 2025	-5,000		CO travel expenses	32,796
Spring 2025	-1,800		Travel by r. Chair to IFIN-HH	30,996
Dec 25.	-1,800		Travel by r. Chair to CERN	29,196
Dec. 24- Jan. 25 ?	-1,800		AIME WIGNER 24	27,396
25-Apr		19500	Membership 24-25	46,796
Estimated remaining budget after commitments				46,796



Membership 2024

Membership 2024-25	Income CHF	In Kind contribution
CERN	3,000	
UNIVERSITY OF THE AEGEAN	1,500	
Istituto Nazionale di Fisica Nucleare - INFN	3,000	
Extreme Light Infrastructure ELI-ERIC	1,500	
MTA Wigner Fizikai Kutatóközpont Részecske	1,500	
UNIVERSITY OF SOFIA - FACULTY OF PHYSICS	1,500	
GSI Helmholtzzentrum für Schwerionenforschung	1,500	1,538
EUROPEAN SPALLATION SOURCE – ESS ERIC	1,500	1,538
Science Technology Facilities Council - STFC	3,000	
INIF - NN	1,500	
LIP		1,538
National Centre for Scientific Research “Demokritos”		1,538
Total	19,500	6,152



Communications and Events

- Information:
- Events and Meetings
 - AIME Wigner AI Event
- HEPtrepreneurs event series (report & feedback)
- Communication activities

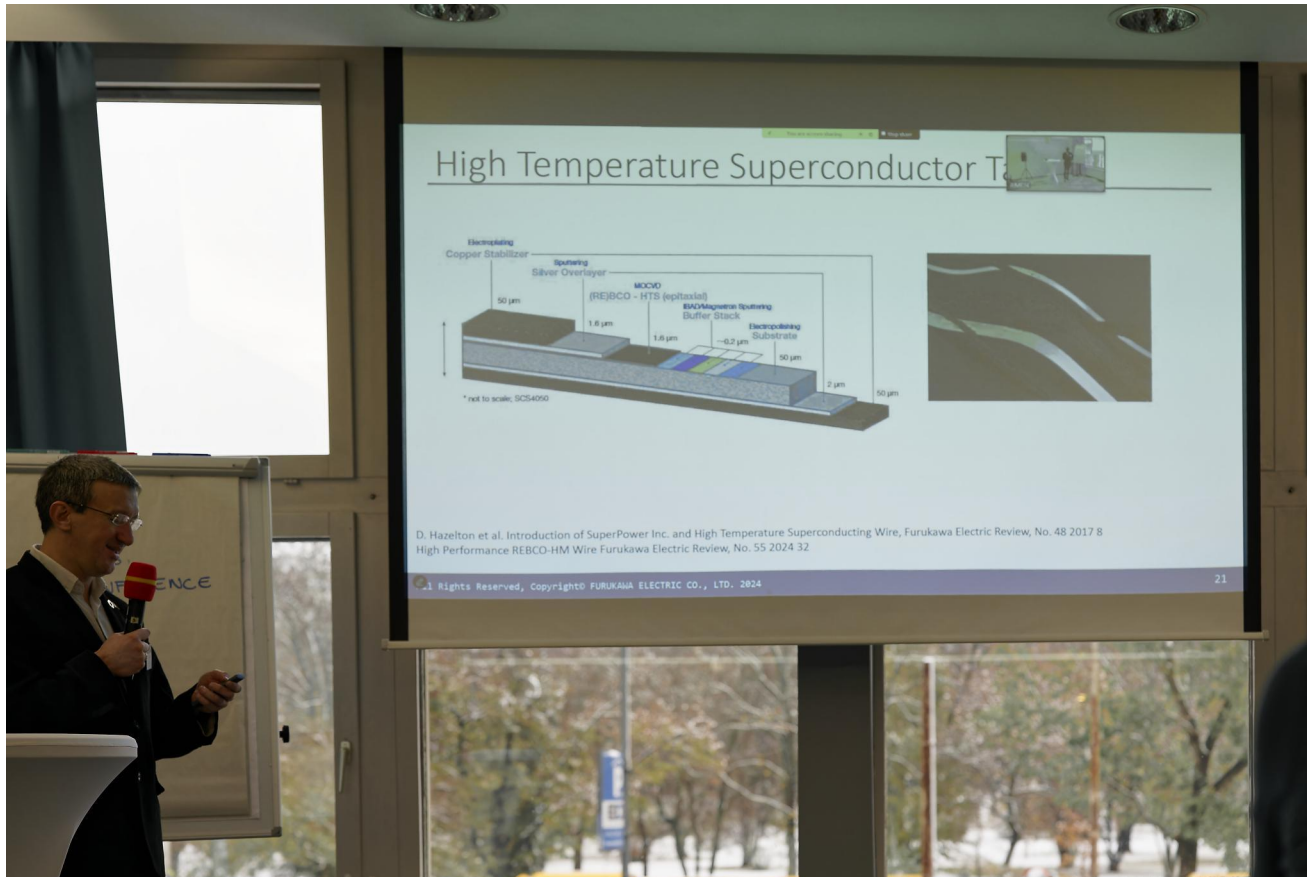
➤ AIME 2024 at Wigner



Quick facts

- Two days
- 40 participant
- Keynotes
 - Matthew Schwartz (Harvard Univ.)
 - Tibor Höltz (Furukawa Electric)
 - Robert Izsak (Riverlane LTD)
 - Enrique Rico Ortega (CERN)
 - Ernesto Bonomi (Groq Inc.)
 - Arturo Garcia (Barcelona Supercomputing Center)

▶ AIME 2024 at Wigner



The event's total cost finally was EUR 4400. Based on that we will submit to the finance the compensation the board approved EUR 2000.

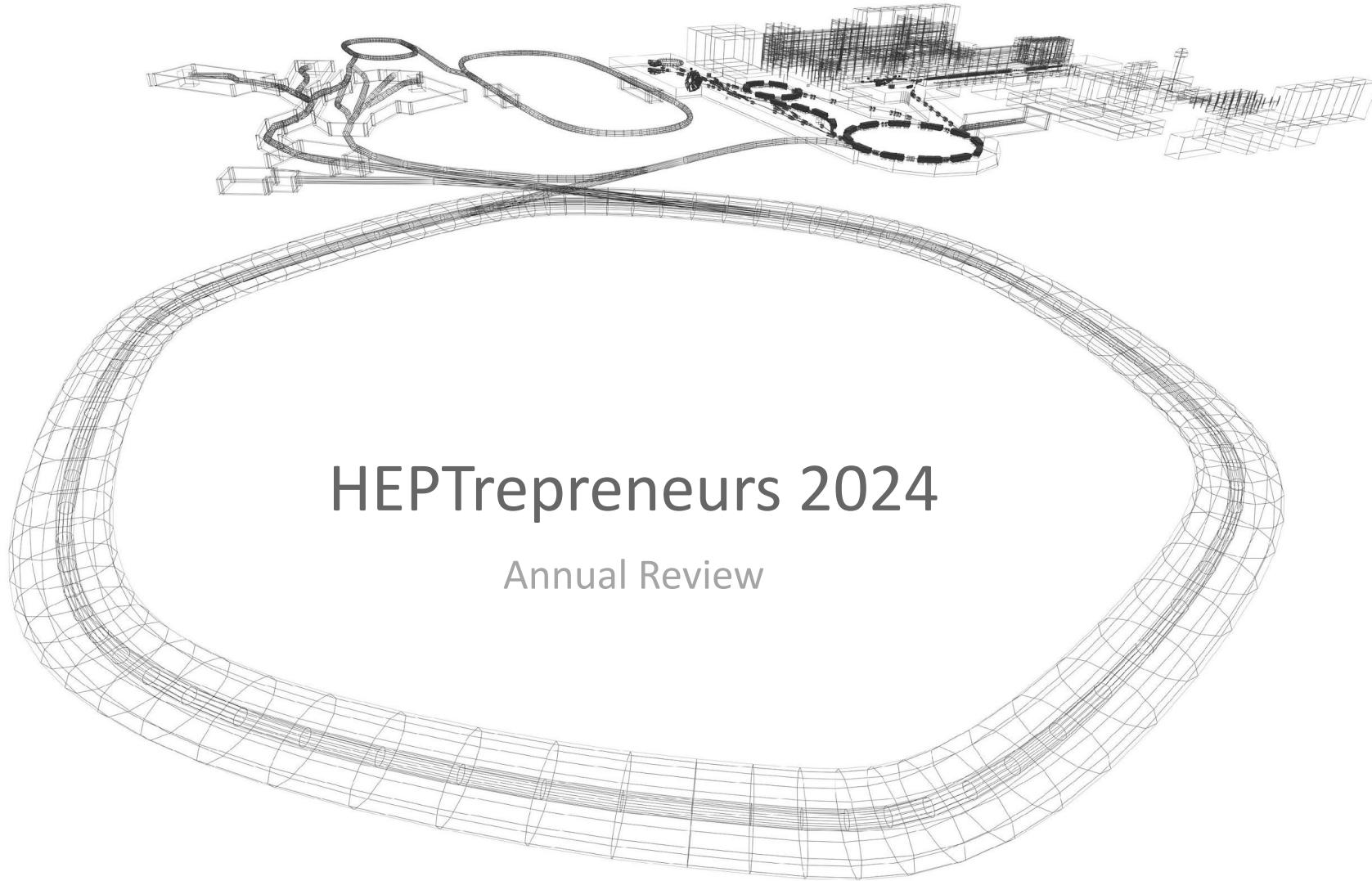


Communications

- Demokritos newsletters
- LinkedIn page
- HEPTrepreneurs
- Website updates
- Physics Matter Newsletters



HEPTrepreneurs



HEPTrepreneurs 2024

Annual Review



4 HEP Entrepreneur Online Sessions

Episode 14

16.04.2024

**What can a particle accelerator do for industry?
Consulting to Academia as a Business Model**
Datzmann interact & innovate GmbH

32 Participants

Episode 15

09.07.2024

**How to build a Deep Tech Venture in 12 Months -
Learnings from a Deep Tech Venture Builder**
Joris Jansens, HighTechXL

22 Participants

Episode 16

03.09.2024

**Start-up Secrets: How to turn your Idea into a
Successful Product & Learnings from a Real
Founder Story**
Andreas Pavlenko, Venture Wizards

22 Participants

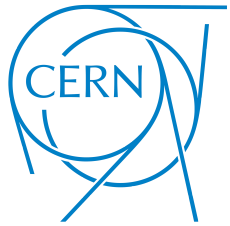
Episode 17

12.11.2024

**Do I have to quit my Job? The different Roles
Scientists can take in Tech Start-ups**
Dr. Maria Nikolou, Stavendo Services

23 Participants

Participation by research institution



16 Participations



2 Participations



51 Participations



4 Participations



10 Participations



1 Participations



2 Participations

Cannot be assigned

13 Participations

Knowledge Sharing and beyond

HEPTech Meeting December 5–6, 2024

Christine Darve



European Spallation Source
(Afterwork: APS, ASP, CERN, IUPAP)

<https://cdarve.web.cern.ch/>

christine.darve@ess.eu

12 / 5 / 2024

PHYSICS MATTERS

@ Forum on International Physics (FIP)



- ❖ 50 popular science events since Nov. '20!
- ❖ Gathering up to 34 countries at once!
- ❖ Audience: from 70 to 477 persons

Accelerating Sciences is a Matter of Facts !

□ *Physics Matters* April 25

SESAME Light Source (members and observers) and Developing Communities

- Matters for Users: Scientific Cases using Photon and Neutron Sources
- Particle Accelerator and large Research Infrastructure
- Outreach & Education
- Organizations & Collaborations
- Forums and Topical colloquia:
 - ❖ Environment & Sustainable developments
 - ❖ Health & Life Science



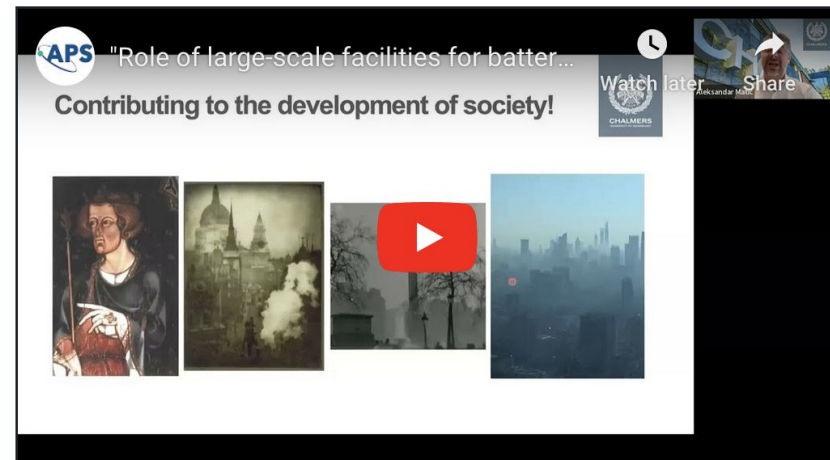
🇸🇪 Apr 2023: "Role of large-scale facilities for battery research and innovation"
Thursday, April 27, 2023

"Role of large-scale facilities for battery research and innovation"

See Slides: [Slides_Aleksandar_Matic_Battery]

Description: [Description_Aleksandar_Matic_Battery]

Speaker: Prof. Aleksandar Matic, Chalmers University of Technology, Gottenburg, Sweden



Connect, Engage and Enable !

- 20-40 min colloquium
- Q&A audience engaging w/ speakers !

[“Nanosciences & Nanotechnologies towards SDGs & Science with social impact” by Prof. Malik Maaza](#)

When: Thursday December 16:00 CET (10:00 ET)

[Register Here](#) (to receive the Zoom link, even without being APS member)



This series is **open to all**, so feel free to share!

and help spreading the word to build a curious and educated international connected Global Physical Society!

[All events](#) and [Playlist](#)



Watch the latest PHYSICS MATTERS edition: **“CERN: 7 Decades of Scientific Achievements and Innovation”**





International Union of Pure and Applied Physics (IUPAP) WG14 - Accelerator Science and IUPAP

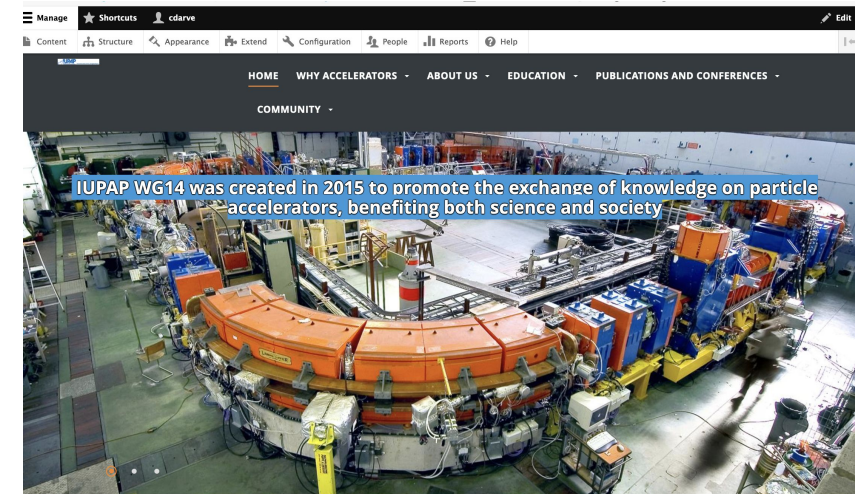
Mandate - Advancing Particle Accelerators for Science & Society in key areas:

- **Applications:** Industrial, medical, energy, environmental.
- **Science:** Light sources, neutron sources, HEP, heavy ion research.
- **Future Facilities:** Laser, plasma, compact neutron sources.
- **Innovation:** Accelerator principles, sustainability.
- **Engagement:** Education, workshops, global collaboration.

See for instance:
Socio-Economical Impact
from diverse RI (🙄 here)

Scope Summary

- Global collaboration and knowledge sharing.
- Resources and content to inspire and inform.
- Mapping accelerator impacts on SDGs.
- Promoting sustainable accelerator facilities.
- Supporting workshops and professional events.



Mandate & Scope

➤ A fixed Rota for the HEP Tech Chair

To be corrected

Member Institute	KEY	Year of Shadow Chair from June	Year of Chair
SCIENCE AND TECHNOLOGY FACILITIES COUNCIL (STFC)	STFC		2021-23
MTA Wigner Fizikai Kutatóközpont Részecske	WIG	2023	2024
UNIVERSITY OF SOFIA – FACULTY OF PHYSICS	SOF	2024	2025
Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering	IFIN-HH	2025	2026
Istituto Nazionale di Fisica Nucleare - INFN	INFN	2026	2027
EUROPEAN SPALLATION SOURCE	ESS	2027	2028
Extreme Light Infrastructure ERIC (CZ & HU)	ELI-ERIC	2028	2029
National Centre for Scientific Research “Demokritos”	NCSR	2029	2030
UNIVERSITY OF THE AEGEAN	AEG	2030	2031
GSI Helmholtzzentrum für Schwerionenforschung	GSI	2031	2032
CERN	CERN	2032	2033
LIP Inico	LIP	2033	2034



Board papers

ESS IN KIND CONTRIBUTION

Proposal:

ESS is committed to contributing to the HEP Tech Network by sharing knowledge through the PHYSICS MATTERS Colloquium Series, organized and hosted by Christine Darve, with support from the Forum on International Physics (FIP) at the American Physical Society (APS).

The PHYSICS MATTERS monthly LIVE online event series is designed to improve access to physics education and promote global knowledge exchange. Open to the public, these events foster community engagement through inspiring and interactive talks on topics relevant to high-energy physics (HEP) and scattering communities.

In alignment with the mission of the International Union of Pure and Applied Physics (IUPAP) Working Group on Particle Accelerators and Society (WG14), ESS will also produce short recordings and organize a hackathon. These initiatives aim to support the HEP Tech community by focusing on spin-off activities of our member organization in areas such as medical applications and the use of particle accelerators to address environmental and societal challenges. Updates on these activities will be shared on international platforms.

In return ESS requests to reduce its contribution by half, from 3 kEUR to 1.5 kEUR.



Board papers

GSI IN KIND CONTRIBUTION

Proposal:

GSI intends to continue the HEPTrepreneurs event series as the main organiser and host.

The HEPTrepreneurs event series focusses on High Energy Physics Entrepreneurship and covers various themes. The inspirational and interactive talks, round tables and keynotes are made for all those interested in entrepreneurship, but also for young people who want to know more about alternative careers to research and for technology transfer officers looking for people to inspire.

GSI will continue to take the lead in the event organisation and cooperate with HEPTech and the network to run the events. GSI plans to hold the event minimum 4 times a year and will also cover any speaker costs that may arise. Participation in the events will continue to be free of charge for all HEPTech members and partners.

In return GSI requests to reduce its contribution by half, from 3 kEUR to 1.5 kEUR.



Board papers

CRIOGENIC DAYS

Proposal:

Next autumn (27-29.10.25) the Cryogenic Society of Europe (CSE) will continue the series of European Cryogenic Days (ECD).

As cryogenics are one of the major engineering challenges to make new accelerator or experimental set-ups possible we would like to ask you for financial support of the event. The Cryogenics Society of Europe will organize the European Cryogenic Days this time at Twente University. This event has been hosted at different HEP Tech Institutes (last time 2023 at GSI), but this time one of the leading university in the field of superconducting materials and cryogenics, will host the ECD. The field of large refrigeration systems will be covered as well as the design of cryogenic equipment.

The ECD are the opportunity for a short but condensed event, which is not dominated by lectures but offers plenty of room for exchange between the institutes, many of which are also members of the CSE.

For more information, you can either view the agenda of previous events (<https://indico.gsi.de/event/15856/>, <https://indico.cern.ch/event/995633/>) or contact us.

Requested financial support: 2000 kEUR

Start of the service: 09/2025

End:09/2025



Board papers

COMMUNICATION OFFICER

Proposal:

Last year we recognised that there is still a requirement for communications and administrative support, present arrangement is 2.5 days per month for a salary €7,500.

It is proposed that

- We extend Valantinas contract for continues for another year, and
- increase in the salary to 10,000 Euros which includes a 5% increase for inflation and a change of role to include an additional 8 hours in order to incorporate
 - Manage and report on the HEPTech budget chasing payments and managing the in-kind contributions..

Valentina has been consulted about this change. She has indicated that she will be able to spend more time on HEPTech. Thus, she has offered to continue in the role.

The existing job description outlined in ANNEX 1 will have to be updated to include the additional duties. if this is accepted

The decision for the board to make is do we:

1. Extend Valentina's contract for a further year to ensure continuity. At the moment there is only the chair in post, so opportunities for training new staff is limited.
2. Increase working hours to include new tasks and a 5% increase for inflation.
3. Commence the recruitment process in 2025 a Communications Administrator to the post in 2025.



Discussion and Members Highlights

- Organisations TT Highlights 3 -5 mins per organisation
- Discussion Topics
- Working Group – Grow our membership



Outlook, AOB

- Note in the minutes that the Board paper for:
- ASTP Digital SIG ???????
- Call for AIME papers ?????

Thank you for the
attention!

