



PAC1 MEETING MINUTES

Deliverable 6.2

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Summary

The Project Advisory Committee (PAC) of the APRENDE project held the first meeting via video call on July 30-31 to evaluate proposals for Transnational Access (TAA) and Education and Training visits. The PAC evaluated six proposals for Transnational Access (TAA) and seven proposals for Education and Training visits.

For TAA, the PAC endorsed five proposals:

- "Isomeric yield ratios from alpha-induced fission at symmetry and the low mass region" with up to 50 hours of beam time at a cost of 9.844 EUR and user support of 3.500 EUR.
- "Photonuclear Cross Section Measurement $^{226}\text{Ra}(\gamma,n)^{225}\text{Ra}$ " with up to 50 hours of beam time at a cost of 12.250 EUR and user support of 1.900 EUR.
- "Measurement of the $^{147,149,150,152}\text{Sm}(n,\gamma)$ cross sections at n_TOF" with up to 50 hours of beam time at a cost of 15.500 EUR and user support of 2.300 EUR.
- "Measurement of the $^{238}\text{Pu}(n,\gamma)$ cross-section at EAR2"
- "Assessing the NEA-HPRL request for measuring the deuteron-induced production of ^3H and ^7Be in $^6,7\text{Li}$ up to 40 MeV"

One TAA proposal was rejected.

For Education and Training visits, the PAC endorsed two proposals:

- "Characterisation of a gamma-spectroscopy setup based on LaBr_3 detectors at n_TOF" with a support of 8.800 EUR for an 8-week stay at n_TOF(CERN).
- "Time of flight measurements of $^{\text{nat}}\text{Cu}$ and ^{65}Cu at the GELINA facility" with a support of 8.800 EUR for an 8-week stay at JRC Geel.

Five Education and Training proposals were not endorsed.

Abbreviations and acronyms

Acronym	Description
FSTP	Financial Support for Third Parties
HPRL	High Priority Request List
PAC	Project Advisory Committee
TAA	Transnational Access
WP	Work Package

PAC members

- A. Algora (CSIC, Valencia)
- D. Cano-Ott (CIEMAT, Madrid)
- R. Capote (IAEA, Vienna)
- R. Jacqmin (CEA, Cadarache)
- M. Kerveno (IPHC, Strasbourg)
- A. Plompen (EC-JRC, Geel)

The meeting was held as a video call on July 30 and July 31, 14:30-17:30. Daniel Cano-Ott and Robert Jacqmin were excused. RJ provided written evaluation comments.

1 WP6 Transnational Access and Education and Training visits

The objectives of Task 6.2 are the call for proposals and proposal evaluation of:

- Transnational access (TAA) to neutron beam facilities and for training activities of early-stage researchers and scientific visitors to develop multidisciplinary nuclear competences.
- Exploit synergies between APRENDE and OFFERR, ENEN2Plus, and other projects supporting access to experimental facilities.
- Organize **three calls for proposals** of experiments and training activities with a peer-review by a Project Advisory Committee. The Terms of Reference for the PAC (MS17) guarantee good scientific output, a transparent, impartial, and effective selection process and efficient use of resources.
- Provide **750 additional beam time hours** for external users at the participating consortium facilities. In **15 experiments with a typical support of 50 beam time hours**. Two users will receive mobility support for the length of the stay, typically 5 days.
- Organize **10 education and training visits** of early-stage researchers or senior nuclear data experts for scientific stays of up to 8 weeks at the APRENDE beneficiaries

The closing dates for the three calls for proposals are 04th July 2025, 15th March 2026, and the 15th March 2027. The typical user support for experiments is a per diem of 150 EUR and travel cost of 400 EUR. Only the really occurred travel cost can be reimbursed.

The terms of reference of the PAC are described in the MS17 of APRENDE project. The tasks of the PAC are:

- assess the overall scientific progress of TAA and Education and Training visits
- evaluate the Implementation Plan and provide recommendations for improvements
- evaluate applications for Transnational Access

- evaluate applications for training of early stage researchers and scientific visits
- advice on possible collaborations and survey duplication of research efforts
- monitor publication policy and transfer of data to the nuclear data bank
- act as a first adviser in case of potential conflicts

A major task of the Project Advisory Committee (PAC) is to evaluate the proposals for Transnational Access and Early stage researchers training/ scientific visits. Within its evaluation process, the PAC must ensure:

- (1) the best scientific quality combined with
- (2) the most efficient expenditure of the limited resources
- (3) and a guarantee for an equal treatment of all proposers and facilities or inviting institutes

The PAC will assess these proposals on the basis of the following criteria:

- scientific importance and quality,
- preference will be given to experiments that involve actively early stage researchers not more than 6 years after the PhD and their supervisors. Up to 2 early stage researchers or senior researchers can be supported for each experiment
- relevance to the neutron data community needs (e.g. HPRL),
- originality and innovative aspect, both from the scientific and technological point of view,
- feasibility and quality of nuclear data that can be obtained,
- importance for the strategic goals of the Euratom Work Programme, (e.g. APRENDE research tasks)

The PAC members recommended to include a bullet point in the experiment application form that includes the request to provide information, if the proposal has already been submitted or accepted at the respective neutron beam facility.

1.1 Transnational access facilities

The APRENDE WP6 support transnational access to the following facilities, see **Figure 1**



Figure 1 Logos of the APRENDE beneficiaries participating in the Transnational Access of WP6

The facilities can be grouped into:

- **Neutron time-of-flight facilities** NFS(GANIL) n_TOF(CERN), GELINA(JRC), nELBE (HZDR)
- **Research reactors:** CVREZ
- **Charged particle beams and quasimonoenergetic neutrons:** ALTO, GENESIS (CNRS) MONNET (JRC) IFIN-HH, UPPSALA, JYVÄSKYLÄ
- **Reference neutron fields:** PIAF(PTB)

The nELBE neutron time of flight facility is not operational.

2 Budget for TAA and Education and Training

The budget for the Tasks 6.3 and 6.4. is

- TAA facility support 176 500 EUR (106 500 EUR + 70 000 EUR)
- User support for experiments: 52 900 EUR
- Education and training visits: 88 000 EUR

The TAA facility support for CERN, GANIL, IFINI-HH, PTB, JYU, USE and UU is realized through beam time cost in the cost category “internally invoiced goods and services” see **Figure 2**.

'Other costs categories' items (e.g. internally invoiced goods and services)

Internally invoiced goods and services		
	Cost (€)	Justification
CERN	28 000	Delivery of 90 hours of beam time for experiments at n_TOF.
GANIL	12 250	Delivery of 30 hours of beam time at GANIL.
IFIN-HH	7 000	Delivery of 60 hours of beam time for experiments at IFIN-HH.
PTB	22 500	Delivery of 65 hours of beam time for experiments at n_TOF.
JYI	15 750	Delivery of 80 hours of beam time for experiments at IGISOL.
USE	8 750	Delivery of 100 hours of beam time for experiments at HiSPANoS.
UU	12 250	Delivery of 40 hours of beam time for experiments at NESSA.

Figure 2 TAA support from APRENDE GA part B, page 31. The listed budget here is 106 500 EUR for 465 hours of beam time.

Because three APRENDE partners do not have this accounting practice, they can claim personal cost for support of the experiments. The PM cost per beam time hour has been set to an average value of 245 EUR /beam time hours. This value is based on the idea, that 285 hours of beam time need to be provided to reach the APRENDE objective of 750 beam time hours and the PM cost of 70 000 EUR.

The user support for experiments is separated into support for users employed by APRENDE beneficiaries 38 600 EUR and for users not employed by APRENDE beneficiaries (Financial support for third parties - FSTP) 16 100 EUR.

The support for education and training visits is separated into support for researchers employed by APRENDE beneficiaries 70 400 EUR, which corresponds to 8 visits of 8 week duration and for researchers not employed by APRENDE beneficiaries (Financial support for third parties - FSTP) 17 600 EUR which corresponds to 2 visits of 8 weeks.

As three closing dates are foreseen in the projects in each PAC meeting up 5 typical experiments can be supported with combined 250 beam time hours and 3-4 education and training visits of up to 8 weeks each. For each PAC meeting the fraction of the budget is:

Facilities (beam time): 58 800 EUR

Experiment users: 17 600 EUR

Education and Training visits: 29 300 EUR

Depending on the PAC decisions and number of endorsed proposals some deviations from these guidelines are allowed.

3 Evaluation of Proposals

The following proposals were received up to the extended deadline of July 4, 2025 and are listed in **Table 1** and **Erreur ! Source du renvoi introuvable.** The first call for proposals resulted in five proposals for transnational access to neutron beam facilities. A total of 1952 beam time hours have been requested at the facilities and support of 23 050 EUR for thirteen users. The APRENDE project can only provide a partial beam time support for the facilities of

typically 50 hours due to the budgetary limitation. For each experiment typically 2 users can be supported of 5 days.

Table 1 List of Transnational Access Proposals for the first call of APRENDE

PAC	Spokesperson	Home-Institute /FSTP	Facility	Requested hours	Requested user support
TAA_1_1	Radu Emanuel Mihai / Benedikt Bergmann	Institute of Experimental and Applied Physics – Czech Technical University in Prague /FSTP	GANIL NFS	56	7250
TAA_1_2	Stefan Pomp	Uppsala University	IGISOL Jyväskylä	168	7000
TAA_1_3	Bernat Ballester	Univ. Strasbourg SCK CEN	ELBE HZDR	288	1900
TAA_1_4	Emilio Mendoza Cembranos	CIEMAT	CERN	1440	2300
TAA_1_5	Victor Alcayne	CIEMAT	CERN	720	2300
TAA_1_6	Begoña Fernández Martínez	Sevilla	GANIL NFS	40	2300
TOTAL				2712.00	23050.00

Table 2: List of Education and Training proposals for the first call of APRENDE

PAC	Visitor	Home-Institute /FSTP	Facility	Contact	Requested weeks
SV_1_1	Murasa Baraki	Afghanistan	IAEA ?	not given	8
SV_1_2	Nataliia Dzysiuk /FSTP	INSC of Taras Shevchenko National University of Kyiv /FSTP	IJCLab Orsay	Jonathan Wilson	4
SV_1_3	Ellena Lasisch	TU Wien /FSTP Master student	CERN	Alberto Mengoni	8
SV_1_4	Georgia Anna Karakaxi	National Technical University of Athens, Greece	JRC Geel	Carlos Paradelo Dobarro	8
SV_1_5	Kalliopi Kaperoni	National Technical University of Athens	CERN	Alberto Mengoni	8
SV_1_6	Carole Chatel	Technische Universität Darmstadt, Institut für Kernphysik /FSTP	JRC Geel	Stephan Oberstedt	8
SV_1_7	Zoe Bari	National Technical University of Athens	JRC Geel	Cristiano Lino Fontana	4/8
Total					44

The number of proposals for Education and Training visits was 7 with a total duration of 44 weeks with a total cost of 53 200 EUR. Two written reports served as the basis for the PAC evaluation. The decisions are the responsibility of all members of the PAC. The PAC evaluated all submitted proposals. The evaluation results are given in the next sections.

3.1 Proposals for Transnational Access

TAA_1_1: Development and characterization of hybrid pixel detector setups for precise particle tracking, epithermal and fast neutron detection

Spokesperson: Radu-Emanuel Mihai, Benedikt Bergmann

Facility: NFS (GANIL)

Requested beam time: 40-56 hours

This proposal concerns the characterization of a detector used high-energy physics (CERN LHC) for neutron detection. At NFS the ionizing and non-ionizing energy loss shall be measured for different sensor materials and neutron energy ranges from the MeV to



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epithermal. A similar proposal was already submitted in 2021 to the ARIEL project but at this time for the CERN nTOF facility. The proposers did not contact Xavier Ledoux (NFS) and the proposal has not been submitted to the GANIL PAC. The beam time estimate cannot be verified as the repetition rate of SPIRAL-2 is not mentioned. The relevance to the APRENDE project is not mentioned. Nuclear data will not be obtained in the project. The importance for strategic goals of the EURATOM work programme is not given.

Conclusion: The PAC rejected the proposal.

TAA_1_2: Isomeric yield ratios from alpha-induced fission at symmetry and the low mass region

Spokesperson: Stephan Pomp

Facility: IGISOL; Jyväskylä

Requested beam time: 168 hours

The PAC considers this a well formulated proposal. The attachment of the accepted proposal from JYLPAC gives additional Background information. The proposed work aims to measure isotopic yield ratios of fission fragments in 28 MeV alpha-induced fission of Th-232 at IGISOL. It involves higher spin-transfer than with neutron induced reactions. This research is a follow-up to a previous campaign and will contribute substantially to understanding the fission process, particularly in the symmetry and low mass region. The data obtained will be new and complementary to existing knowledge. The experiment will involve a PhD student and an early stage researcher and meets the education and training goals of APRENDE. Although this work is not on the High Priority Request List (HPRL), it will contribute to improved fission modeling, which will eventually lead to better evaluations of neutron and gamma spectra and multiplicities. The proposed work is highly original and innovative, both scientifically and technologically. It exploits recent capabilities developed at IGISOL, which are unique and valuable. Impact is directed on fundamental fission research.

Conclusion: The PAC endorsed this proposal with up to 50 hours of beam time (9 844 EUR). The facility report must clearly state the number of beam time hours provided for the experiment. The support to the users was set to 3500 EUR (Full support for Hendrik Hauk (Oslo, FSTP) and a new early-stage researcher from Uppsala.

TAA_1_3: Photonuclear Cross Section Measurement $^{226}\text{Ra}(\gamma, n)^{225}\text{Ra}$

Spokesperson: Bernat Ballester

Facility: gELBE; HZDR

Requested beam time: 288 hours

The proposal is original and innovative as it aims to measure the $^{226}\text{Ra}(\gamma, n)^{225}\text{Ra}$ reaction cross-section in the giant dipole resonance region, a challenging and previously unexplored nuclide. The motivation for this research comes from non-energy applications, specifically from targeted alpha-therapy (^{225}Ac production). The data obtained will be valuable and new. The experiment is part of Ballester's doctoral research. The experiment is challenging but feasible, thanks to prior test experiments. The data obtained will be of high quality and valuable to the medical community even if systematic uncertainties related to the bremsstrahlung source spectrum might remain.

Conclusion: The PAC endorsed this proposal with up to 50 hours of beam time (12 250 EUR) The facility report must clearly state the number of beam time hours provided for the experiment. The support to the users was set to 1900 EUR (for B. Ballester. FSTP)



TAA_1_4: Measurement of the ^{147,149,150,152}Sm(n,γ) cross sections at n_TOF

Spokesperson: Emilio Mendoza Cembranos

Facility: n_TOF; CERN

Requested beam time: 1440 hours

The proposal's scientific importance and quality cannot be fully evaluated based on the submitted document, as it lacks essential information. No references are provided. This proposal should have been improved, resubmitted and then evaluated. This timeline cannot be followed, because the experiment shall be done before the Long Shutdown at CERN and there is not another APRENDE PAC meeting before March 2026. Because of that, the PAC is not requesting exceptionally a resubmission. A separate proposal (INTC-P-738) was found, which provides adequate details on the role of the nuclides and the relevance of the capture cross-sections. The INTC proposal should have been incorporated or attached to the current proposal. The expected results have significant impact on reactivity estimates for thermal and fast reactor fuel. One graduate student (Adrian Sanchez Caballero) is involved in the proposal. The experiment is state of the art but with limited innovation, since it will exploit the techniques and a setup already used. The measurements can improve the nuclear data situation for Sm isotopes, if capture yield data are provided, which should be a mandatory deliverable from these measurements.

Conclusion: The PAC endorsed this proposal with up to 50 hours of beam time (15 500 EUR) at n_TOF(CERN). The facility report must clearly state the number of beam time hours provided for the experiment. The support to the users was set to 2300 EUR.

TAA_1_5: Measurement of the ²³⁸Pu(n,γ) cross-section at EAR2

Spokesperson: Victor Alcayne

Facility: n_TOF; CERN

Requested beam time: 720 hours

The proposal's scientific importance and quality cannot be fully evaluated based on the submitted document, as it lacks essential information. This proposal should have been improved, resubmitted and then evaluated. This timeline cannot be followed, because the experiment shall be done before the Long Shutdown at CERN and there is not another APRENDE PAC meeting before March 2026. Because of that, the PAC is not requesting exceptionally a resubmission and had to base the assessment on the corresponding INTC proposal found online. The proposal aims at measuring the ²³⁸Pu(n,γ) cross section in the 2–500 eV energy range at the n_TOF EAR2 to improve the resonance parameters in the resolved resonance region (RRR) and help reduce uncertainties in decay heat calculations and qualification of Radioisotope Thermoelectric Generators. Funding for two postdocs to participate is requested. There is limited innovation, but there is a potential of improving the setup by increasing the number of detectors.

Conclusion: The PAC endorsed this proposal with up to 50 hours of beam time (15 500 EUR) at n_TOF(CERN). The facility report must clearly state the number of beam time hours provided for the experiment. The support to the users was set to 2300 EUR.

TAA_1_6: Assessing the NEA-HPRL request for measuring the deuteron-induced production of ³H and ⁷Be in ^{6,7}Li up to 40 MeV

Spokesperson: Begoña Fernández Martínez

Facility: NFS; GANIL

Requested beam time: 40 hours



The goal of the proposed experiment is to perform high-accuracy activation experiments for the production of ${}^7\text{Be}$ and ${}^3\text{H}$ through the irradiation with deuterons of ${}^6\text{Li}$ and ${}^7\text{Li}$ samples and produce Total Thick Target Yields. This work is linked to task 5, subtask 2.5.2 related to the He3Be7@ DONES Lol in APRENDE, lead by Carlos Guerrero. The reactions to be studied belong to the HPRL list for fusion applications. They concern the licensing of the future facility IFMIF-DONES for which the production of ${}^7\text{Be}$ and ${}^3\text{H}$ must be accurately assessed for the safety case. The collaboration and especially the spokesperson of the GANIL proposal have experience with this kind of experiment, as they have performed the same kind of activation at low energy (from 9.8 to 16 MeV) with the NPI CAS cyclotron. The PAC regrets once more that the current proposal is not very detailed, and that additional documentation from the GANIL proposal E903_24 had to be requested. The feasibility sounds good (with a possible challenge of offline detecting ${}^3\text{H}$), and the quality of the obtained data will help to better assess the cross section in the high energy region.

Conclusion: The PAC endorsed this proposal with up to 40 hours of beam time (16 300 EUR) at NFS(GANIL). The facility report must clearly state the number of beam time hours provided for the experiment. The support to the users was set to 2300 EUR.

3.2 Education and Training

SV_1_1: Murara Baraki: Neutron Activation Analysis and Computational Modeling of Environmental Radioisotopes for Cancer Risk Assessment

The proposal has not been submitted on the required form that can be downloaded from the APRENDE website. There is no contact person or hosting institute named. A concrete work plan of the activity, how to relate neutron activation analysis with density functional theory is not given. The proposal does not contribute to the objectives of the APRENDE project. The EU has put restrictive measures in place according to which entities from Afghanistan are not eligible to participate in any capacity in the EURATOM research and training programme 2023-2025.

Conclusion. The PAC does not endorse this proposal.

SV_1_2: Natalia Dzysiuk (Kyiv) to visit IJCLAB Orsay: Angular Distributions of prompt fission gamma-rays

The proposal aims to analyse angular correlations between gamma-rays emitted from fission fragments in the ν -Ball2 data. The goal is to gain insight into spin generation in fission fragments. However, it is unclear if this analysis will provide valuable information or if current nuclear modelling capabilities can utilize it. The proposal is considered a worthy scientific endeavour, but it is too open-ended and may not contribute significantly to science and applications at this time. There is no involvement of an early stage researcher. The duration of 4 weeks might be too short for the work plan. The transfer of skills in reaction modelling to physicists at the host institute seems unrelated to the work.

Conclusion: The PAC does not endorse this proposal.

SV_1_3: Ellena Lasisch (Vienna) to visit n_TOF(CERN): Characterisation of a gamma-spectroscopy setup based on LaBr₃ detectors at n_TOF



This proposal aims at the development of new measurement capabilities at CERN n_TOF: A measurement of inelastic scattering ($^{19}\text{F}(n,n'\gamma)$ and $^{28}\text{Si}(n,n'\gamma)$) with LaBr_3 detectors will be performed this next fall (2025). The proposed work involves a master student who will work on the characterization (source and EAR1 beam measurement) of a new detection array of scintillation detectors and the Geant4 simulation of the setup. The proposal is well-written with a clear work program. It is a valuable experience for a MS student who begins a scientific career in nuclear physics. The training benefits will be high. New cross section data can be produced from these experiments. It is a first measurement of this kind at n_TOF and earlier tests looked promising. The reaction is related to the APRENDE objectives in Task 2.4.

Conclusion: The PAC accepted the proposal for a stay of 8 weeks at n_TOF(CERN) with a support of 8 800 EUR as FSTP.

SV_1_4: Georgia Anna Karakaxi (NTUA) to visit JRC Geel: **Time of flight measurements of $^{\text{nat}}\text{Cu}$ and ^{65}Cu at the GELINA facility**

The proposed work will be on neutron scattering on $^{\text{nat}}\text{Cu}$ and ^{65}Cu (enriched) with the ELISA liquid scintillator array at GELINA. New Li-Glass scintillators will be included in the setup. The differential cross section of the elastic and inelastic neutron scattering will be measured from hundreds of keV to 10 MeV. The support is for a visit of a PhD student in her 1st year of her thesis. The stay will allow the applicant to participate in the preparation and realization of measurements that are at the core of the PhD thesis. The measurements are important and relevant in the framework of APRENDE, since they will provide new elastic cross section data to improve the situation for the two isotopes of Cu, that are relevant for reflectors in fast reactors and critical assemblies. Peer-reviewed publications are expected from the work.

Conclusion: The PAC accepted the proposal for a stay of 8 weeks at JRC Geel with support of 8 800 EUR.

SV_1_5: Kalliopi Kaperoni (NTUA) to visit n_TOF(CERN): **Study of semiconductor detectors' performance at NEAR**

The proposal is clearly written and contributes to the PhD thesis of the proposer. It is about providing additional data on radiation hardness and performance of semiconductor materials in an intense neutron/radiation field. The main topic is the exploitation of the NEAR station for detector and electronics studies. The relevance for nuclear data studies is not addressed, e.g. no characterisation of NEAR spectra is included. The relevance to APRENDE objectives is not obvious.

Conclusion: The PAC does not endorse this proposal.

SV_1_6: Carole Chatel (TU Darmstadt) to visit JRC Geel: **Study of the possibility to reveal the origin of a ternary particle in fission by $\gamma\gamma$ -coincidence**

Ternary fission shall be investigated by analysing ν -Ball2 $\gamma\gamma$ -coincidence matrices for ^{238}U . The applicant is an early stage researcher and has already done excellent work for the ν -Ball2 experiment. This is an interesting, original proposal, clearly written. It is quite ambitious, there is actually no guarantee that the searched coincidences will be found. If successful, it would certainly make for an original publication in nuclear fission research. A strong justification for the stay is to work with Stephan Oberstedt. The relevance for nuclear data and APRENDE is indirect by providing an improved understanding of the fission process. Unfortunately, the candidate's current affiliation status does not allow to realize a stay at JRC Geel. The proposal might be stronger, when the candidate's professional situation is clear.



Conclusion: The PAC cannot endorse this proposal at this time and asks for a resubmission, when the professional situation of the applicant is known.

SV_1_7: Zoe Bari (NTUA) to visit JRC Geel: **Cross section measurements of short-lived reaction products with enriched targets**

The proposal deals with the installation of a pneumatic system for activation measurements at MONNET(JRC) and fast transfer to a detection system. The PhD student will take part in the installation and operation of this system, also in the preparation and optimization of neutron activation measurements. The objective is to acquire high-accuracy neutron cross-section data for Ge and Mo isotopes in later measurements. This proposal is rather weak in terms of scientific content and projected outcome. Even if the doctoral student will undoubtedly derive some benefits from a stay at MONNET, the actual value will come later with the projected Mo and Ge isotope activation measurements. Relevance for the APRENDE objectives is not discussed. A resubmission with a better physics case and relevance to the APRENDE objectives is recommended.

Conclusion: The PAC does not endorse this proposal and asks for a resubmission of an improved proposal.

3.3 Conclusion

The total budget for transnational access to neutron facilities assigned for facility cost is 69 540 €, and the total amount for user support is 12 300 €. Five experiments are supported for a total amount of 150 supplementary beam time hours. All relevant data are summarized in **Table 3**.

A total amount of 17 600 € is recommended for education and training of visiting scientists; all relevant data are summarized in **Table 4**

The second PAC meeting will take place on Wednesday, April 13 and Thursday, April 14, 2026 hosted by Instituto de Física Corpuscular, Valencia.

Table 3 Summary of TAA evaluations

PAC	Spokesperson	Home-Institute /FSTP	Facility	Contact	Requested hours	Unit cost	Facility Cost	Requested user support	Approved user support	Approved hours	Approved Facility support
TAA_1_1	Radu Emanuel Mihai / Benedikt Bergmann	Institute of Experimental and Applied Physics – Czech Technical University in Prague /FSTP	GANIL NFS	Xavier LEDOUX	56	408.33	22866.48	7250	0	0	0
TAA_1_2	Stefan Pomp	Uppsala University	IGISOL Jyväskylä	Heikki Penttilä	168	196.88	33075.84	7000	3500	50	9844
TAA_1_3	Bernat Ballester	Univ. Strasbourg SCK CEN	ELBE HZDR	Roland Beyer	288	245	70560	1900	1900	50	12250
TAA_1_4	Emilio Mendoza Cembranos	CIEMAT	CERN	Alberto Mengoni	1440	311.11	447998.4	2300	2300	50	15555.5
TAA_1_5	Victor Alcayne	CIEMAT	CERN	Alberto Mengoni	720	311.11	223999.2	2300	2300	50	15555.5
TAA_1_6	Begona Martinez	Sevilla	GANIL NFS	Xavier LEDOUX	40	408.33	16333.2	2300	2300	40	16333.2
TOTAL					2712.00		814833.12	23050.00	12300	240	69538.2

Table 4 Summary of Training of early-stage researchers and scientific visits

Summary of E&T /scientific visits							
PAC	Visitor	Home-Institute /FSTSP	Facility	Contact	Requested weeks	Approved weeks	Total cost
SV_1_1	Murasa Baraki	Afghanistan	IAEA ?	not given	8	0	0
SV_1_2	Nataliia Dzysiuk /FSTP	INSC of Taras Shevchenko National University of Kyiv /FSTP	IJCLab Orsay	Jonathan Wilson	4	0	0
SV_1_3	Ellena Lasisch	TU Wien /FSTP Master student	CERN	Alberto Mengoni	8	8	8800
SV_1_4	Georgia Anna Karakaxi	National Technical University of Athens, Greece	JRC Geel	Carlos Paradela Dobarro	8	8	8800
SV_1_5	Kalliopi Kaperoni	National Technical University of Athens	CERN	Alberto Mengoni	8	0	0
SV_1_6	Carole Chatel	Technische Universität Darmstadt, Institut für Kernphysik /FSTP	JRC Geel	Stephan Oberstedt	8	0	0
SV_1_7	Zoe Bari	National Technical University of Athens	JRC Geel	Cristiano Lino Fontana	4/8	0	0
Total					44	16	17600