IFIN-HH Accelerator Complex PAC meeting (23 - 24 November 2023)

1MV Summary

ID	Spokesperson	Title	Requested days or samples	Approved days
3	Ailincai Sorin-Cristian	14C DATING OF BRONZE AGE BURIALS FROM VĂCĂRENI, TULCEA COUNTY;	4	3
4	Bianca Preda-Bălănică	Building the absolute chronology of Bronze Age burial mounds in Moldova and Bukovina - future directions	2	3
9	Adrian Adamescu	THE MOUNDS 1 AND 8 FROM CUCA, JUD. GALAȚI;	1	3
11	Eugen Silviu TEODOR	At the beginning of the story: Băneasa Tumulus;	3	3
13	Zsuzsanna Kopeczny	The dating of the royal residence from Timişoara (13-14th centuries);	3	3
14	Dr. hab. Adina Boroneanţ	Dating diet and environmental changes in the Mesolithic-Early Neolithic Iron Gates of the Danube	7	3
15	Cristian Eduard Ştefan	The absolute chronology of the final Chalcolithic in north-western Wallachia	2	3
16	Daniel Veres	Radiocarbon dating the youngest volcanic eruptions in East- Central Europe, Ciomadul lava dome complex, Romania	10	3
17	Maria Ilie	A high-resolution chronology of sedimentation in oxic and euxinic environments	2	6
18	Daniel Veres	Assessing the role of past climate change in the Bronze Age settlement shifts, Lower Mures area, Romania	10	3
19	Ciprian Astalos	Radiocarbon dating of Neolithic and Eneolithic sites in north-western Romania (continuation)	5	3
20	Maria-Laura Tîrlă	Climatic oscillations of MIS 3-1 recorded in fault deposits of past glacial environments (Southern Carpathians)	30	3
21	Florica Matau	New perspectives on the Cucuteni settlement patterns	1	3
22	Raluca Teodorescu	Radiocarbon data for old and newly found archaeological sites in Transylvania and Muntenia	120	3
23	Popa Ştefan	Radiocarbon dating of the osteological material from Igriş Abby (Timiş County, Romania);	3	3

ID	Spokesperson	Title	Requested days or samples	Approved days
24	Diana-Măriuca Vornicu	The chronology of technological and socio-economic transformations, during Copper Age, in the Bahlui River basin	3	3
25	Vasile Opriș	The radiocarbon dating of Early Chalcolithic in the Bucharest area (ca. 5000-4500 BC)	3	3
26	Mircea Anghelinu	Timing of major cultural shifts during the Upper Palaeolithic of Eastern Romania	14	3
28	Mihai Rotea	Proposal for carbon - 14 dating of the prehistoric osteological samples from Igriţa Cave, Floreşti – Polus and Sănduleşti – La Stână sites;	3	3
29	Tiberiu Sava	Tree-ring 14C archives in the proximity of the Cernavoda NPP	6	6
31	Marian Cosac	The Middle Paleolithic from the area of the Romanian Carpathians	30	3
32	Maria-Emilia Țiplic	Radiocarbon dating of early medieval churches and their cemeteries from Câlnic (jud. Alba), Miercurea Sibiului (jud. Sibiu) and Cisnădie (jud. Sibiu)	3	3
35	Denis Negrea	Advanced characterization of some materials from the Romanian cultural heritage	3	3
37	Alexandru Petre	129I AMS measurements for determining its background in the environment in the territory of Romania	11	3
42	Andreea Dima	Lifestyle and diet offset in late Medieval monastic Oltenia: radiocarbon dating and stable isotopes analysis. A statistical approach.	3	3
44	Alfred Vespremeanu-St roe	Progresses in the Lower Danube Valley geoarchaeology and the Southern Carpathians and Balkan Mountains alpine lakes geochronology	5	6
49	Diaconu Vasile	Chronological Highlights for The Bronze Age in the Moldavian Subcarpathians	2	3
53	Tiplic Ioan Marian	Using 14C dating for funerary samples. Cremation cemetery from Păuca-Biserica Ungurească archeological site (Sibiu County)	3	3
58	Nona Palincas	The 14C-dating of animal bones from the Late Bronze-Early Iron Age site at Popești, Co. Giurgiu, Southeastern Romania (ca. 1600-800 BC)	4	3
61	Daniela Pascal	Chronology of former glaciers in the Romanian Carpathians	9	3
63	Doru Pacesila	AMS survey of 210Pb for experiments in Astroparticle physics	12	3
64	Doru Pacesila	Determination of technetium-99 by low energy AMS	8	3
65	Doru Pacesila	Intercomparison of lodine measurements by AMS blank and standard samples. 1MV and 3MV	4	3

ID	Spokesperson	Title	Requested days or samples	Approved days
		Tandetron Accelerators		
67	Iuliana Stanciu	Advancing Environmental Radionuclide Analysis: Radiochemical separation and AMS measurement of plutonium and americium	4	3
70	Hila Tudor	Radiocarbon dating of the early medieval period from Târgsoru Vechi area, Prahova county (Continuation)	3	3
72	Hila Tudor	Radiocarbon dating of the migration period (5th -7th century AD) from Budureasca Valley, Prahova county	3	3
73	Bogdan Ciupercă	Radiocarbon dating of the Dacian fortress from Gura Vitioarei - Movila	3	3
1 81	CONSTANTIN PREOTEASA	Back in time. Cucuteni in context: Eastern Carpathian area in the mid-Vth Millenium BC	3	3

Total days approved

123

3MV Summary

ID	Spokesperson	Title	Requested days	Approved days
0	Mihai Straticiuc	Chetec-INFRA	10	10
46	Iqra Zamir	X-ray production cross sections of Cr, Mo, and W samples with low energy protons induced reactions.	10	0
47	Mihai Straticiuc	Transnational access for the European project ChETEC-INFRA	9	9
51	Alexandra Spiridon	Study of ion-ion fusion mechanisms at sub-barrier energies for nuclear astrophysics	7	7
79	Giuseppe Lorusso	10B(α,n)13N and 76Ge(α,n)79Se cross section measurement for plasma diagnostics and astrophysics	11	11
33	Maria-Emilia Țiplic	PIXE and XRF analysis of waste metal from a medieval bell-casting pit discovered inside of the medieval church of Cisnădie (Sibiu county, Romania)	1	1
60	Mihai Radu	Biological effects of low energy accelerated protons in 2D cell cultures exposed in FLASH regimen	30	25
5	Valentin CRACIUN	Thickness and density measurements in carbon films	6	6
7	Valentin CRACIUN	Exploring fs-laser irradiation damage subthreshold behavior of dielectric mirrors via electrical measurements	6	3
8	Valentin CRACIUN	Radiation effects in SiC single crystal	9	0

ID	Spokesperson	Title	Requested days	Approved days
39	Banciu Marian Gabriel	Vanadium oxide layers for high frequency applications	4	4
74	Alin Velea	Comprehensive RBS Characterization of Machine-Learning-Predicted Chalcogenide Thin Films Synthesized by Combinatorial Magnetron Sputtering	12	12
76	Nistor Magdalena	RBS analysis of oxide thin films for energy applications	7	7
80	Radu-Florin ANDREI	Non stoichiometric composite oxide memristors - RBS assessment.	3	3
36	Gihan Velisa	Response of amorphous germanium to ionizing irradiation	16	16
41	Andrei Apostol	Study of Elemental Impurities present in Natural Uranium Samples for Nuclear Forensics and Safeguards Applications	5	5
56	Gihan Velisa	Ionization effects on the evolution of pre-existing defects in Ga2O3	18	5
12	Valentin CRACIUN	Radiation effects in high entropy alloys thin films	9	0
38	Ionut Topala	Cosmic-Rays Effects on Carbonaceous Interstellar Dust Analogs Doped with Sulphur and Other Heteroatoms	8	8
40	Ke Jin	Ion irradiation effects in V-Nb-Ta-Ti refractory high-entropy alloys	10	10
66	Teodora Madgearu	p-B fusion cross section measured with ELISSA	14	14
68	Mircea LECHINTAN	Beam testing of the YAP:Ce scintillator detector prototype for Cryring @ESR	4	4

Total days approved

160

9MV Summary

ID	Spokesperson	Title	Requested days	Approved days
30	Adina Coman	The production cross section of the 4439-keV g-ray line in the 12C(p,p'g)12C reaction	12	10
50	Alexandru Enciu	In-beam validation of HYDRA setup for hypernuclei studies	7	7
54	Yuki Abe	Diagnostic development for spectral analysis of GeV-scale multi-species ion beams in laser-driven experiments	5	5
55	Kalin Gladnishki	Magnetic moment of the 4+ isomeric state in 210Po	7	7

ID	Spokesperson	Title	Requested days	Approved days
	Radu-Emanuel Mihai	Extensive testing of Timepix detectors for particle		
59		discrimination in heavy ion reactions at the 9MV	6	6
	IVIIIIai	Tandem accelerator		
75	Ciprian Mitu	Composite materials for space radiation	3	2
75	Ciprian Mitu	protection-Phase 2	3	3
10	OLIVER WIELAND	Search for HOT PDR in neutron rich 66Ni at finite	20	18
	OLIVEIT WILLS IIV	temperature	20	
27	Sorin Pascu	Study of the 150Tb decay	14	14
		To measure the radiative n-capture cross section for		
34	Ananya Kundu	81Kr using hybrid surrogate transfer reactions induced	8	8
		by weakly-bound nuclei		
/15	Polytimos Vasileiou	Investigations of collectivity and shape coexistence in	16	14
	Torytimos vasiicioa	184Os	10	
48	Volker Werner	Spectroscopy of the neutron-rich 156Sm in 2n transfer	15	14
52	Stefan Lalkovski	Lifetimes of the 107Ag core-excited states	7	7
	Kalin Gladnishki	Electromagnetic transition rates in the nucleus	1.4	1.4
57		132,134Ba	14	14
71	The austine Mars all	Shape coexistence in 52Cr: lifetime of first excited 0+	7	7
/1	Thorsten Kroell	state	,	,
	Asli KUSOGLU	Access to the Single-Particle Structure of the Low-Lying		
78		Electric Dipole Response of 62Ni via One-Neutron (d,	7	7
		pγ) Transfer;		
82	Tatsuya Furuno	Measurement of 14N(3He, t)14O(1-) Cross Section for	2	2
	ratsaya rarano	Stellar 13N(p, γ) Reaction Rate		
83	Massimiliano	Search for 0+ states in 42Ca by 2n-transfer reactions	6	6
	Luciani	·		
84	Giacomo Corbari	Pinning down the nature of 0+ excitations in 114Sn by	10	10
	Giacomo corban	1n transfer		
	Bogdan Fornal	Lifetime measurements of 0+2,3,4 excitations in		
85		116,118,120Sn with one-neutron transfer reactions	20	18
		induced by a 13C beam		
86	Par-Anders	Study of gamma strength functions in 128Te with	7	7
	Soderstrom	complementary probes and methods		
69	Cristina Petrone	Testing of a detection setup for identification of MNT	5	4
		products near 0°		