

# IFIN-HH Accelerator Complex

## PAC meeting (10 - 11 November 2022)

### 1MV

Code	Spokesperson	Title	Approved days
4_1MV	Ailincai Sorin-Cristian	14C DATING OF EARLY IRON AGE BURIALS DISCOVERED AT STOICANI, GALAȚI COUNTY	3
5_1MV	Ailincai Sorin-Cristian	RADIOCARBON DATING THE LATE BRONZE AGE HABITATION AT TECUCI – VARIANTA OCOLITOARE	3
6_1MV	Adrian Adamescu	Suceveni Stoborani	3
8_1MV	Maria Ilie	A high-resolution Bayesian sedimentation model based on radiocarbon dated sediments of bulk organic matter sampled from the NW Black Sea	3
9_1MV	Dr. hab. Adina Boroneanț	Dating diet and environmental changes in the Mesolithic-Early Neolithic Iron Gates of the Danube	3
10_1MV	Ciprian Astaloș	Radiocarbon dating of Neolithic and Eneolithic sites in north-western Romania	3
12_1MV	Alin Frînculeasa	Northern Muntenia in the Eneolithic era - a chronologically relevant episode	3
14_1MV	Simalcsik Angela	The absolute chronology of Bronze Age burial mounds in Moldova and Bukovina	3
15_1MV	Tudor Virgil Hila	Radiocarbon dating of the Early Medieval period from Târgsoru Vechi area, Prahova county	3
16_1MV	Tudor Virgil Hila	Radiocarbon dating for the medieval period in Prahova county	3
17_1MV	Mircea Anghelinu	REASSESSING THE NUMERICAL CHRONOLOGY OF THE LATE AND FINAL UPPER PALEOLITHIC IN EASTERN ROMANIA (CONTINUATION)	3
18_1MV	Ana Ilie	C14 Analysis from Hârșova tell site, an Emblematic Eneolithic Settlement on the Shore of Danube River	3
19_1MV	Alexandru Hegyi	MegaForts Project - The large Bronze Age fortifications from southwestern Romania - an interdisciplinary geoarchaeological approach	3
29_1MV	Neculai Bolohan	MASCA/Archaeological materiality, chronology, and landscape in the Cracău-Bistrița watershed	3
32_1MV	Nona Palincas	The radiocarbon dating of human and animal bones from pre-Roman Dacia (2nd century BC – 1st century AD)	3
33_1MV	Daniel Veres	Towards a more secure chronological bracketing of the Middle to Upper Palaeolithic transition in the Lower Danube area	3

**Total days approved      48**

## 3MV

<b>Code</b>	<b>Spokesperson</b>	<b>Title</b>	<b>Approved days</b>
1_3MV	Marian Gabriel BANCIU	Investigation of Vanadium oxide layers for high microwave / Terahertz devices	3
7_9MV	Livius Trache	EURO-LABS basic training school 2023	3
11_3MV	Haridas Pai	Direct measurement of the $7\text{Li}(p, \alpha)4\text{He}$ reaction at astrophysical energies using ELISSA array	17
13_3MV	Adela Consuela Scafes	Determination of human tissues matrix and influence of formalin fixation time in minor/trace elements concentrations	2
20_3MV	Valentin Craciun	Thickness and density measurements in carbon foams	3
21_3MV	Dr. Jan Lancok	Stoichiometry control of nanostructured oxide thin films generated by pulsed laser deposition: in search for a viable route for p-type semiconductor fabrication	3
22_3MV	Valentin Craciun	Chemical composition investigations of transition metal oxy-nitrides films for hydrogen applications	3
24_3MV	Iancu Decebal	Response of defective germanium to ionizing irradiation	11
25_3MV	Ana Ilie	In-Air PIXE on Eneolithic copper artefacts from Gumelnița culture	1
26_3MV	Gihan VELISA	Se/Sn effects on damage evolution in defective $\text{KTaO}_3$ under ionizing irradiation	11
27_3MV	Zinicovscaia Inga	Assessment of silver and gold nanoparticles uptake by medicinal plants;	2
28_3MV	KeunHwan Kim	Influence of proton irradiation on the physical properties of ZnSe and ZnTe films;	0
30_3MV	Georgiana BULAI	Oxide nanostructures for solar energy conversion devices	3
34_3MV	Adrian Bele	Polymeric force sensors under ion irradiation;	4
35_3MV	Sorin Ailincai	In-air PIXE applied on copper artifacts from the Bronze Age	1.5
36_3MV	Ioan Andi Pitigoi	In-Air PIXE on republican roman denarii unveiled in Arges county	1
37_3MV	Alin Velea	RBS analysis of combinatorial chalcogenide thin films prepared by magnetron sputtering and predicted by machine learning algorithms	12
68_3MV	Alexandra Spiridon	Study of ion-ion fusion mechanisms at sub-barrier energies for nuclear astrophysics (IV)	10
39_3MV	Mihai Radu	Biological effects of low energy accelerated protons in 2D cell cultures exposed in FLASH regimen	20
44_3MV	Ionut Topala	Estimation of hydrogen content for interstellar dust analogues obtained in pulsed plasmas	2

46_3MV	Rajat Roy	Neutron quest for $^{27}\text{Al}$ and $^{28}\text{Si}$ in ( $\alpha$ , n) reactions	9
47_3MV	Maria-Iulia ZAI	Complementary use of NRBS and foil-ERDA for light elements analysis in thin film targets produced at ELI-NP	10
48_3MV	Magdalena Nistor	RBS analysis of oxide thin films for energy applications	7
51_3MV	Malvinka Urák	NEW LIGHT ON THE TĂRTĂRIA TABLETS: LOCAL OR IMPORT?	2
58_3MV	Nesho Chipev	DISTRIBUTION AND BIOACCUMULATION OF ELEMENTS IN KEY SPECIES OF THE BULGARIAN BLACK SEA COASTAL ECOSYSTEMS AND THEIR STRESS ECOLOGY	3
59_3MV	Mircea Lechintan	Radiation hardness and efficiency test studies on YAP:Ce scintillators	4
62_3MV	Adela Consuela Scafes	PIXE and PIGE study of changes in dental enamel and composites due to CO <sub>2</sub> laser irradiation and to incubation in AgNO <sub>3</sub> solution	2
63_3MV	Radu-Florin ANDREI	The search for a suitable production protocol for radiation sensing memristors	5
66_3MV	Laura Mihai	Testing active glasses and composites under proton irradiation	2
67_3MV	Burducea Ion	Deuterium behavior under heavy ion irradiation: Part II	8

**Total days approved      164.5**

## 9MV

Code	Spokesperson	Title	Approved days
2_9MV	Pavlos Koseoglou	Lifetime measurements on 178Yb;	12
7_9MV	Livius Trache	EURO-LABS basic training school 2023;	3
23_9MV	Cristina Bordeanu	Neck-neutron emission in the proton induced fission of 238U;	0
31_9MV	Stanimir Kisyov	Lifetimes of the Ag core-excited states;	14
40_9MV	Catalin Borcea	Test for separation of reaction products using a toy magnetic spectrometer;	3
41_9MV	Ananya Kundu	Exploration of proton-unbound excited states in 92Nb;	0
43_9MV	G. Lorusso	alpha-induced neutron yield on F nuclei;	10
45_9MV	Oana Andrei	Shape coexistence phenomena and lifetime measurements in the N=48 90Mo nucleus;	12
49_9MV	Dragos Nichita	Study of dipole strength below the particle separation energy in 56Fe;	10
50_9MV	Pär-Anders Söderström	Gamma strength function measurements in 112,114Sn;	8
52_9MV	Bogdan	Low-spin spectroscopy of 118Sn with different probes;	10
53_9MV	Anukul Dhal	Lifetime measurement of octupole phonon states in N = 85 Promethium nucleus;	10
54_9MV	DEEPAK PANDIT	Search for exotic shape in 35Cl via GDR line shape;	0
56_9MV	Thorsten Kröll	Lifetime measurements in 214 Rn;	6
57_9MV	Fabio Crespi	Probing the nature of 0+ states in 112Sn by alpha transfer;	20
60_9MV	Cristina-Roxana Nita	Exploratory experiment: High spin spectroscopy of the odd-odd 212Fr and the structure of the magic 212Rn nucleus;	13
61_9MV	Caterina Michelagnoli	Spectroscopy of Gd-161 populated in transfer reactions;	15
64_9MV	Asli Kusoglu	Investigating the single-particle content of the sub-threshold electric dipole response of 88 Sr;	9
65_9MV	Cristian Costache	Lifetimes measurements of excited 0+ states in 62Ni;	14
69_9MV	Emilian Dragulescu	Low and medium spin states of the odd-odd nucleus 138La;	0

**Total days approved      169**