

Subprogramul 5.9.1 ELI-RO

Rezultatele finale Competiția C1 ELI-RO

Nr. crt.	Titlu proiect	Acronim proiect	Director proiect	Instituție coordonatoare	Instituții partenere	Punctaj obținut
Proiecte de pregătire și realizare experimente la ELI-NP						
1	Development of free-standing low-density foam targets for ELI-NP experiments	ELIFOAM	Mihaela FILIPESCU	INFLPR	IFIN-HH	99
2	Real time detection system for flash laser-driven radiation in biological applications	BIO LIVE-FLASH	Liviu NEAGU	IFIN-HH	INFLPR	99
3	Advanced Metrology of Intense Laser Pulses	AMIPulse	Dan-Gheorghita MATEI	IFIN-HH	INCDTIM	99
4	Real-time evaluation of high-power laser beams in focus	REFOCUS	Mihai STAFE	UNSTPB	INFLR	99
5	Optimized design of 2D and 3D structured targets for ultra-intense laser-induced secondary sources used for materials in extreme environments	eTARGET	Marian ZAMFIRESCU	INFLPR	IMT/ISS/IFIN-HH	99
6	ELIGANT-TN upgrade for improved background rejection and preparatory experiments	GANT-TN-UPGRADE	Dan FILIPESCU	IFIN-HH		98
7	New nuclear phenomena under the intense regime	NUIR	Chieh-Jen YANG	IFIN-HH		97
8	Complex Phase Shaping of Ultra-High Intensity Laser Beams for Secondary Radiation Generation and Applications	Complexa	Florin ROTARU	IFIN-HH	INFLPR	97

9	Exploratory nuclear studies with vortex gamma beams: generation, characterization and applications	ENSVOR	Virgil BĂRAN	UB	IFIN-HH	97
10	Assessing FLASH laser-driven radiation effects on three-dimensional multicellular constructs	FLASH 3D-CELL	Mihaela BACALUM	IFIN-HH	INCDFM	97
11	Neutron generation from deuteron-doped structured targets	NEUGEN	Vojtěch HORNÝ	IFIN-HH		96
12	Study of Resonance States in Light and Medium Mass Nuclei	SOLEMN	Aslı KUŞOĞLU	IFIN-HH		96
13	Innovative coating materials for optical components in extreme environments	INCOMAT	George Alexandru NEMNEŞ	IFIN-HH	INCDFM/UB	94
14	Rapid moderation and focusing of neutrons for the new generation of laser experiments	RAMOFON	Raul Victor ERHAN	IFIN-HH		93
15	Infrastructure for testing high energy physics at ELI-NP	InTestHEP@ELI-NP	Bogdan DIACONESCU	IFIN-HH	UAIC/MGM	93
16	Ultrahigh-charge electron beams accelerated by laser-irradiated solid surface followed by a gas jet LWFA as the second stage	UHCE-Surf+LWFA	Constantin DIPLASU	INFLPR		92
17	Development of a Mach-Zehnder interferometer for the laser-induced vacuum birefringence observation	MZIVB	Yoshihide NAKAMIYA	IFIN-HH		91
18	Radiation Dominated Plasma Dynamics: Particle Acceleration and Nuclear Phenomena	RDPD	Sargis Ter-AVETISYAN	IFIN-HH		90
19	Development of Dual Gamma and Neutron beams for the characterization of nuclear waste	DUGAN	Sophia CHEN	IFIN-HH		85

20	Laser-Driven Zero-Knowledge Authentication for Secure Object Verification in Nondestructive Testing	LZK4NDT@ELI	Violeta IANCU	IFIN-HH	UNSTB	85
21	Materials activation analysis for mixed pulsed fields experiments	MAA-MPF	Daniela GURAU	IFIN-HH		85
22	Role of high-density Electronic excitations on radiation effects and defect Evolution on Laser-active crystals	REEL	Gihan VELISA	IFIN-HH	INCDFM	85
23	Development of Advanced Detector Systems and AI-assisted Simulation Frameworks for QED Studies in Laser-Driven Experiments	ADAQS	Veta GHENESCU	ISS		85
24	Mitochondrial DNA zapping with tuneable ultra-high dose-rate rate FLASH-Redefining Radiobiological Frontiers	MITOZAP	Klaus SPOHR	IFIN-HH	INCDEVB	85
25	STAndards-based Radiation Dosimetry for Ultra-reliable Space Technologies Bridging the gap between device level testing and in-orbit performance	STARDUST	Dan Gabriel GHIȚĂ	IFIN-HH	MAZAROM	85
26	Dose and dose rate dependence of the radiobiological “FLASH effect” at ultra-high dose rate studied for laser-driven and conventional accelerated particle beams	ParticleFLASH	Diana SAVU	IFIN-HH	UNSTB	85
27	Microscopic investigations of nuclear excitations up to GDR energies for the prediction of new experiments	NSTAR	Nadia TSONEVA	IFIN-HH		85
28	Simulations and experiments with micro-cones	SIMECO	Olimpia BUDRIGA	INFLPR	IFIN-HH	85

29	Comprehensive analysis of FLASH irradiation effects on tumoral environment via high-content, label-free assays integration	FLASHTUMOR	Cristina POLONSCHII	CIB	IFIN-HH	85
30	Laser-based Production of Low-Energy Muons for Applications	LAP-LEMA	Alexandra SĂFTOIU	IFIN-HH		85
Proiecte de dezvoltare a infrastructurii ELI-NP						
1	Advanced high power laser parameters control for optimum beam time delivery at ELI-NP	OptiLas	Ioan DĂNCUȘ	IFIN-HH	UNSTB	99
2	Spectral Resolution for Extreme Light	ResLex	Daniel URSESCU	IFIN-HH	UNSTB	95
Proiecte de colaborare cu Germania la ELI-NP						
1	International Advanced Training Program in Nuclear Photonics 2.0	IATP-NP 2.0	Calin Alexandru UR	UNSTPB		Excelent / Exemplary