

Se aprobă,

Autoritatea Națională pentru Cercetare

Președinte

Andrei ALEXANDRU

REZULTATELE COMPETIȚIEI ELI-RO C1
Proiecte propuse pentru finanțare

Nr. crt.	Titlu proiect	Acronim proiect	Director proiect	Instituție coordonatoare	Instituții partenere	Punctaj obținut	Buget Total (2025-2027)
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	4.000.000
2	Real time detection system for flash laser-driven radiation in biological applications	BIO LIVE-FLASH	Liviu NEAGU	IFIN-HH	INFLPR	99	4.000.000
3	Advanced Metrology of Intense Laser Pulses	AMIPulse	Dan-Gheorghita MATEI	IFIN-HH	INCDTIM	99	4.000.000
4	Real-time evaluation of high-power laser beams in focus	REFOCUS	Mihai STAFE	UNSTPB	INFLR	99	4.000.000

* aprobat, sub rezerva aprobării cererii de nr. 2136/2024

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/IFI N-HH	99	4.000.000
TOTAL							20.000.000
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	19.000.000
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		Excellent / Exemplary	7.999.801,25

Autoritatea Națională de Cercetare (ANC).

George BALA Director DEBCU

Maria Magdalena CALOIAN Consilier Superior DEBCU

Institutul de Fizică Atomică,

Florin Dorion BUZATU Director General

Georgeta NEACȘU Contabil Șef

Andreea FAZACAS Coord. Programe IEA

Cristina MOCANU Coord. Program ELI PO

cu aspectul, pt 8.3. An H.G. 1188/2022.

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Președinte

Andrei AL EYANDEU

LISTA DE REZERVĂ COMPETIȚIA ELI-RO C1 2025

Nr. crt.	Titlu proiect	Acronim proiect	Director proiect	Instituție coordonatoare	Instituții partenere	Punctaj obținut
Proiecte de pregătire și realizare experimente la ELI-NP						
1	ELIGANT-TN upgrade for improved background rejection and preparatory experiments	GANT-TN-UPGRADE	Dan FILIPESCU	IFIN-HH		98
2	New nuclear phenomena under the intense regime	NUIR	Chieh-Jen YANG	IFIN-HH		97
3	Complex Phase Shaping of Ultra-High Intensity Laser Beams for Secondary Radiation Generation and Applications	Complexa	Florin ROTARU	IFIN-HH	INFLPR	97
4	Exploratory nuclear studies with vortex gamma beams: generation, characterization and applications	ENSVOR	Virgil BĂRAN	UB	IFIN-HH	97
5	Assessing FLASH laser-driven radiation effects on three-dimensional multicellular constructs	FLASH 3D-CELL	Mihaela BACALUM	IFIN-HH	INCDFM	97

* de nota 2136/2025, aprobare sub rezerva acordării a altor cerș

6	Neutron generation from deuteron-doped structured targets	NEUGEN	Vojtěch HORNÝ	IFIN-HH		96
7	Study of Resonance States in Light and Medium Mass Nuclei	SOLEMN	Aslı KUŞOĞLU	IFIN-HH		96
8	Innovative coating materials for optical components in extreme environments	INCOMAT	George Alexandru NEMNEŞ	IFIN-HH	INCDFM/UB	94
9	Rapid moderation and focusing of neutrons for the new generation of laser experiments	RAMOFON	Raul Victor ERHAN	IFIN-HH		93
10	Infrastructure for testing high energy physics at ELI-NP	InTestHEP@ELI-NP	Bogdan DIACONESCU	IFIN-HH	UAIC/MGM	93
11	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
12	Development of a Mach-Zehnder interferometer for the laser-induced vacuum birefringence observation	MZIVB	Yoshihide NAKAMIYA	IFIN-HH		91
13	Radiation Dominated Plasma Dynamics: Particle Acceleration and Nuclear Phenomena	RDPD	Sargis Ter-AVETISYAN	IFIN-HH		90
14	Development of Dual Gamma and Neutron beams for the characterization of nuclear waste	DUGAN	Sophia CHEN	IFIN-HH		85
15	Laser-Driven Zero-Knowledge Authentication for Secure Object Verification in Nondestructive Testing	LZK4NDT@ELI	Violeta IANCU	IFIN-HH	UNSTB	85

16	Materials activation analysis for mixed pulsed fields experiments	MAA-MPF	Daniela GURAU	IFIN-HH		85
17	Role of high-density Electronic excitations on radiation effects and defect Evolution on Laser-active crystals	REEL	Gihan VELISA	IFIN-HH	INCDFM	85
18	Development of Advanced Detector Systems and AI-assisted Simulation Frameworks for QED Studies in Laser-Driven Experiments	ADAQS	Veta GHENESCU	ISS		85
19	Mitochondrial DNA zapping with tuneable ultra-high dose-rate rate FLASH-Redefining Radiobiological Frontiers	MITOZAP	Klaus SPOHR	IFIN-HH	INCDEV	85
20	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
21	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
22	Microscopic investigations of nuclear excitations up to GDR energies for the prediction of new experiments	NSTAR	Nadia TSONEVA	IFIN-HH		85
23	Simulations and experiments with micro-cones	SIMECO	Olimpia BUDRIGA	INFLPR	IFIN-HH	85

24	Comprehensive analysis of FLASH irradiation effects on tumoral environment via high-content, label-free assays integration	FLASHTUMOR	Cristina POLONSCHII	CIB	IFIN-HH	85
25	Laser-based Production of Low-Energy Muons for Applications	LAP-LEMA	Alexandra SĂFTOIU	IFIN-HH		85
Proiecte de dezvoltare a infrastructurii ELI-NP						
1	Spectral Resolution for Extreme Light	ResLex	Daniel URSESCU	IFIN-HH	UNSTB	95

Autoritatea Națională de Cercetare (ANC),

George BALA Director DEPCII

Mihaila CALCIAN Coordonator DEPCII

Institutul de Fizică Atomică,

Elena Dăscăluș Director General

Georgeta NEACȘU Coordonator Șef

Andreea BĂLĂȘCU Coordonator

Cristina MOCANU Coord. Program ELI-RO

an. negocierii. pt. 8.3. 2022 14/8/2022