

PROGRAM IDEI_PROIECTE DE CERCETARE EXPLORATORIE_COMPETITIA 2011

FIZICA

NR. CRT.	COD PROIECT	NUME DIRECTOR	PRENUME DIRECTOR	INSTITUTIE	TITLU	BUGET APROBAT 2014
1	PN-II-ID-PCE-2011-3-0042	Raduta	Apolodor Aristotel	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	Topical research on nuclear structure, phase transitions and double beta decay. Acronim : TRNSPTDBD	187,500
2	PN-II-ID-PCE-2011-3-0049	Poenariu-Gherghescu	Radu Alexandru	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	Binary nuclear systems	186,250
3	PN-II-ID-PCE-2011-3-0050	Poenaru	Dorin N.	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	Decay modes of superheavy nuclei	138,750
4	PN-II-ID-PCE-2011-3-0068	Mirea	Mihail	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	STRONG DISSIPATIVE REGIME IN THE QUANTUM MECHANICS OF NUCLEAR REACTIONS	244,650
5	PN-II-ID-PCE-2011-3-0070	SAHAGIA	MARIA	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	ABSOLUTE STANDARDIZATION AND STUDY OF THE DECAY PARAMETERS FOR POSITRON EMITTERS USED IN PET SYSTEMS. ASSURANCE OF THE METROLOGICAL TRACEABILITY	187,500
6	PN-II-ID-PCE-2011-3-0082	Popa	Nicolae	INSTITUTUL NATIONAL DE CERCETARE - DEZVOLTARE PENTRU FIZICA MATERIALELOR BUCURESTI RA	MACRO – STRESS AND MICRO – STRESS IN RIETVELD REFINEMENT: NEW MODELS AND APPROACHES	91,875
7	PN-II-ID-PCE-2011-3-0083	mihalache	dumitru	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	Fundamental studies in physics of quantum information and in nonlinear optics of few-cycle solitons	168,000
8	PN-II-ID-PCE-2011-3-0091	Moldoveanu	Valeriu	INSTITUTUL NATIONAL DE CERCETARE - DEZVOLTARE PENTRU FIZICA MATERIALELOR BUCURESTI RA	Exciton dynamics and time-dependent transport in optically active quantum dots	221,500
9	PN-II-ID-PCE-2011-3-0092	Delion	Doru-Sabin	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	N-body correlations in exotic nuclear systems	210,000
10	PN-II-ID-PCE-2011-3-0137	Carstea	Adrian Stefan	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	Singularities and Integrability of discrete and ultradiscrete dynamical systems	217,500
11	PN-II-ID-PCE-2011-3-0140	Bucurescu	Dorel	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	Spectroscopy of some less known atomic nuclei	204,150
12	PN-II-ID-PCE-2011-3-0153	Petrovici	Alexandrina	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	Advanced Studies on Structure and Dynamics of Exotic Nuclei	186,750

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13	PN-II-ID-PCE-2011-3-0192	Nagy	Ladislau	Universitatea Babes-Bolyai din Cluj-Napoca	Interactions of atoms and molecules with laser pulses and charged particles	168,750
14	PN-II-ID-PCE-2011-3-0194	Nistor	Leona Cristina	INSTITUTUL NATIONAL DE CERCETARE - DEZVOLTARE PENTRU FIZICA MATERIALELOR BUCURESTI RA	MODULATING THE PROPERTIES OF SEMICONDUCTING QUANTUM DOTS WITH LATTICE DEFECTS	200,000
15	PN-II-ID-PCE-2011-3-0203	JIPA	ALEXANDRU	Universitatea din Bucuresti	Investigation of the quark-gluon plasma formation and the freeze-out process in relativistic nucleus-nucleus and proton-proton collisions	204,283
16	PN-II-ID-PCE-2011-3-0204	Popa	Alexandru	Institutul National de Cercetare Dezvoltare pentru Fizica Laserilor, Plasmei si Radiatiei	Current challenges in modeling the generation of hard radiations by relativistic interactions between very intense laser beams and electrons or atoms	23,757
17	PN-II-ID-PCE-2011-3-0224	Dragoman	Daniela	Universitatea din Bucuresti	Analogies between electron transport in nanostructures and light propagation	177,875
18	PN-II-ID-PCE-2011-3-0264	Caprini	Irinel	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	Analyticity as a tool for precision predictions in particle physics	246,000
19	PN-II-ID-PCE-2011-3-0287	Pintilie	Ioana	INSTITUTUL NATIONAL DE CERCETARE - DEZVOLTARE PENTRU FIZICA MATERIALELOR BUCURESTI RA	Comprehensive Investigation on Bulk Radiation Damage in Defect Engineered Silicon - from Point Defects to Clusters	226,937
20	PN-II-ID-PCE-2011-3-0318	Stoica	Sabin	Fundatia Horia Hulubei	Development of models and methods for computation of the nuclear matrix elements involved in the study of double-beta decay	244,875
21	PN-II-ID-PCE-2011-3-0348	Neda	Zoltan	Universitatea Babes-Bolyai din Cluj-Napoca	Emergent synchronization in complex systems	100,000
22	PN-II-ID-PCE-2011-3-0363	PAVEL	Nicolaie	Institutul National de Cercetare Dezvoltare pentru Fizica Laserilor, Plasmei si Radiatiei	Waveguide Laser Devices Realized by Direct Femtosecond Laser Writing Technique	190,000
23	PN-II-ID-PCE-2011-3-0367	Marginean	Nicolae Marius	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	In-beam fast timing studies of the structure of neutron-rich nuclei in the vicinity of shell closures	202,500
24	PN-II-ID-PCE-2011-3-0368	Petrovici	Mihai	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	Search for collective type phenomena in p+p collisions at LHC energies	229,440

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25	PN-II-ID-PCE-2011-3-0370	Borcea	Catalin	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	Near barrier behaviour of fusion cross section with loosely bound projectiles or projectiles with cluster structure	176,250
26	PN-II-ID-PCE-2011-3-0425	Kuncser	Victor Eugen	INSTITUTUL NATIONAL DE CERCETARE - DEZVOLTARE PENTRU FIZICA MATERIALELOR BUCURESTI RA	Advanced approach of magnetic relaxation	193,125
27	PN-II-ID-PCE-2011-3-0427	Carstoiu	Florin	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	EXOTIC NUCLEAR MATTER IN THE EXPLOSIVE STAGE OF SUPERNOVAE	233,250
28	PN-II-ID-PCE-2011-3-0450	Avrigeanu	Marilena	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	Deuteron-induced reactions at low and medium energies: Consistent direct and statistical model analysis	187,500
29	PN-II-ID-PCE-2011-3-0487	STANOIU	MIHAI	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	Study of z=28 shell gap by the tensor force in neutron-rich isotopes	187,500
30	PN-II-ID-PCE-2011-3-0516	Sofonea	Victor	Academia Romana - Filiala Timisoara	Kinetic models for micro-scale transport phenomena and structure formation in complex fluids: implementation on GPU-based parallel computing systems	175,000
31	PN-II-ID-PCE-2011-3-0522	Lungu	Petrica Cristian	Institutul National de Cercetare Dezvoltare pentru Fizica Laserilor, Plasmei si Radiatiei	Giga and tera-watt laser interaction with carbon, tungsten and beryllium films	168,125
32	PN-II-ID-PCE-2011-3-0554	Misicu	Serban	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	Heavy Ion Optical Potentials for Exotic Nuclei in Astrophysical Nuclear Reactions	150,000
33	PN-II-ID-PCE-2011-3-0583	ANDREICA	Daniel	Universitatea Babes-Bolyai din Cluj-Napoca	Investigation of the phase diagram of selected compounds by muSR and muSR under pressure.	249,375
34	PN-II-ID-PCE-2011-3-0596	Sandulescu	Neculai	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	Proton-neutron pairing and alpha-like quartet condensation in superfluid nuclei	169,500
35	PN-II-ID-PCE-2011-3-0607	Ghileacea	Dumitru	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	An effective field theory approach to new Physics Beyond the Standard Model in the LHC era.	151,575
36	PN-II-ID-PCE-2011-3-0619	Baltog	Ioan	INSTITUTUL NATIONAL DE CERCETARE - DEZVOLTARE PENTRU FIZICA MATERIALELOR BUCURESTI RA	Nonlinear optical processes manifesting as Anderson localization of light in mesoscopic materials	150,000

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37	PN-II-ID-PCE-2011-3-0620	Polosan	Silviu	INSTITUTUL NATIONAL DE CERCETARE - DEZVOLTARE PENTRU FIZICA MATERIALELOR BUCURESTI RA	DUAL EMITTERS FOR DISPLAYS BASED ON OLED COMPOUNDS	220,000
38	PN-II-ID-PCE-2011-3-0665	Popa	Vlad	Institutul National de Cercetare Dezvoltare pentru Fizica Laserilor, Plasmei si Radiatiei - Institutul de Stiinte Spatiale	Exotic super-massive particles in Neutrino Telescopes	186,750
39	PN-II-ID-PCE-2011-3-0691	Brancus	Iliana	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	The Nature of Cosmic Rays as Observed by Advanced Detectors	256,500
40	PN-II-ID-PCE-2011-3-0749	Maciuc (Muresan)	Florin (Raluca-Anca)	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	Studies of flavor production mechanisms in the pp interaction	279,638
41	PN-II-ID-PCE-2011-3-0789	Vizman	Daniel	Universitatea de Vest din Timisoara	Control of melt flow in a directional solidification configuration using an electromagnetic field	45,000
42	PN-II-ID-PCE-2011-3-0794	Stancu	Alexandru	Universitatea "Alexandru Ioan Cuza" din Iasi	Hysteresis and switching in exotic nano and molecular magnetic structures (EXOTIC)	234,375
43	PN-II-ID-PCE-2011-3-0801	Dascalu	Traian	Institutul National de Cercetare Dezvoltare pentru Fizica Laserilor, Plasmei si Radiatiei	Ultraintense THz wave generated in air-plasma by short-pulse high-intensity laser beam	127,500
44	PN-II-ID-PCE-2011-3-0822	Lupei	Voicu	Institutul National de Cercetare Dezvoltare pentru Fizica Laserilor, Plasmei si Radiatiei	Quantum conversion processes of excitation in photon sources of prospect for sustainable energy production	162,500
45	PN-II-ID-PCE-2011-3-0958	Ganciu-Petcu	Mihai	Institutul National de Cercetare Dezvoltare pentru Fizica Laserilor, Plasmei si Radiatiei	Electron acceleration and polaritonic transport by laser-plasma interaction in new capillary configuration	85,625
46	PN-II-ID-PCE-2011-3-0960	Anghel	Dragos-Victor	Institutul National de Cercetare Dezvoltare pentru Fizica si Inginerie Nucleara Horia Hulubei - IFIN-HH	Advanced quantum and statistical methods for mesoscopic systems, with applications in the construction of ultra-sensitive devices	216,750
47	PN-II-ID-PCE-2011-3-0972	Baran	Virgil	Universitatea din Bucuresti	Collective dynamics, dissipation and fragmentation in mesoscopic quantum systems	173,750
48	PN-II-ID-PCE-2011-3-0978	Haiduc	Maria	Institutul National de Cercetare Dezvoltare pentru Fizica Laserilor, Plasmei si Radiatiei - Institutul de Stiinte Spatiale	Study of diffractive processes in interactions of 1-4 GeV ions with nuclear emulsion and applications in astrophysics	187,500

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49	PN-II-ID-PCE-2011-3-1007	Barna	Valentin	Universitatea din Bucuresti	New Metamaterial Classes for Applications in Optics and Photonics	196,875
50	PN-II-ID-PCE-2011-3-1012	Marian	Paulina Elisabeta	Universitatea din Bucuresti	Quantum correlations in continuous-variable settings	165,625
51	PN-II-ID-PCE-2011-3-1013	Marghitu	Octav	Institutul National de Cercetare Dezvoltare pentru Fizica Laserilor, Plasmei si Radiatiei - Institutul de Stiinte Spatiale	Magnetosphere-Ionosphere Coupling in the Auroral Region (M-ICAR)	105,000
52	PN-II-ID-PCE-2011-3-1028	Miclea	Corneliu Florin	INSTITUTUL NATIONAL DE CERCETARE - DEZVOLTARE PENTRU FIZICA MATERIALELOR BUCURESTI RA	Interplay between superconductivity and magnetism and superconducting order parameter symmetry in pnictide superconductors.	250,000