

UNIVERSITY OF DEBRECEN, DEBRECEN, HUNGARY
PhD SCHOOLS

Doctoral School of **Physics**, Director: **Prof. Dr. Zoltán Trócsányi**, DSc., member of HAS

List of courses registered till 2017

I. Program of **atomic and molecular physics**

Name of the lecturer	Title of the course	Code	Character L,D,S,E	Hours/ week	Credit value	Remark
Dr. József Cseh	Symmetries in Two-body and Many-body Systems	PF1/319-97	L	2	2	
Dr. Zsolt Gulácsi	Many-body Calculation Techniques and Applications I.-II.	PF1/37-93	L	2	2x2	2 semesters
Dr. Ágnes Nagy	Quantum Mechanics of Classical Chaotic Systems (Quantum Chaos)	PF1/321-00	L	2	2	
Dr. Ágnes Nagy	Non-linear Phenomena, Chaos	PF1/315-93	L	2	2	
Dr. Ágnes Nagy	Density Functional Theory I.-II.	PF1/39-93	L	2	2x2	2 semesters
Dr. József Pálinkás and Dr. László Sarkadi	Experimental Atomic Collision Physics	PF1/35-93	L	2	2	
Dr. László Sarkadi	Theory of Atomic Collisions	PF1/34-93	L	2	2	
Dr. Károly Tókési	Computational Simulation of Phenomena of Physics	PF1/322-08	L	2	2	
Dr. Károly Tókési	Basic Examples in Programming	PF1/323-08	L	2	2	
Dr. Károly Tókési (Dr. Joachim Burgdörfer)	Introduction to the theory of attophysics	PF1/325-14	L	2	2	
Dr. Ágnes Vibók	Atomic and Molecular Physics	PF1/32-93	L	2	2	
Dr. Ágnes Vibók	Atomic Physics I.-II.	PF1/31-93	L	2	2x2	2 semesters

II. Program of **nuclear physics**

Name of the lecturer	Title of the course	Code	Character L,D,S,E	Hours/ week	Credit value	Remark
Dr. István Angeli, Dr. Barna Nyakó	Charge and Mass Distributions of Atomic Nuclei I.-II.	PF2/31-93	L	2	2x2	2 semesters
Dr. István Angeli	High-Energy Accelerators I.-II.	PF2/340-13	L	2	2x2	2 semesters
Dr. József Cseh	Symmetries in Two-body and Many-body Systems	PF2/32-93	L	2	2	
Dr. József Cseh	Seminars on Nuclear Physics	PF2/330-97	L	2	2	
Dr. Julius Csikai	Neutron and Reactor Physics	PF2/324-95	L	2	2	
Dr. Julius Csikai	Application of Nuclear Methods in Science and Technology	PF2/325-95	L	2	2	
Dr. Julius Csikai	Radioactivity and Nuclear Physics	PF2/326-95	L	2	2	
Dr. Zoltán Elekes	Exotic nuclear physics	PF2/342-14	L	2	2	
Dr. Zsolt Fülöp, (Dr. Thomas Rauscher)	Introduction to Nuclear Astrophysics	PF2/338-12	L	2	2	
Dr. Dezső Horváth	The Standard Model and its experimental tests I.-II.	PF2/339-12	L	2	2x2	2 semesters
Dr. Attila Krasznahorkay	Measurements with magnetic spectrograph	PF2/323-94	E	2	2	
Dr. Attila Krasznahorkay	Experiments with magnetic mass separator	PF2/335-06	E	2	2	
Dr. Attila Krasznahorkay	Collective excitations in atomic nuclei	PF2/336-10	L	2	2	
Dr. Attila Krasznahorkay, Dr. Lóránt Csige	Modern nuclear instruments and methods	PF2/341-14	L	2	2	
Dr. Tamás Lakatos, Dr. János Gál	Electronic Measurement of Physical Quantities	PF2/37-93	L+Gy	2+1	3	
Dr. István Lovas	Particle Physics	PF2/38-93	L	2	2	
Dr. Rezső Lovas	(Structure and Reactions of) Light Exotic Nuclei	PF2/333-01	L	2	2	
Dr. Mihály Molnár (Dr. Ulrich Ott)	Meteorites, the Early Solar System and Nuclear Astrophysics	PF2/343-14	L	2	2	
Dr. Sándor Nagy	Methods and Practice of Gamma Spectrometry	PF2/310-93	L+E	2+1	3	

Dr. Sándor Nagy	Nuclear Fission	PF2/311-93	L	2	2	
Dr. Zoltán Papp	Quantum Mechanical Few-Body Problem	PF2/331-97	L	2	2	
Dr. Péter Raics, Dr. Sándor Sudár	Methods for the Analysis of Nuclear Reactions	PF2/312-93	L	2	2	
Dr. Kornél Sailer	Introduction to Quantum Field Theory	PF2/315-93	L	2	2	
Dr. Kornél Sailer	String Theory I.-II.	PF2/322-94	L	2	2x2	2 semesters
Dr. Kornél Sailer	Symmetries and Symmetry Breaking in Quantum Field Theory I.-II.	PF2/317-93	L	2	2x2	2 semesters
Dr. Kornél Sailer	Renormalization Group Methods in Physics	PF2/328-96	L	2	2	
Dr. Kornél Sailer	TRIANGLE-course	PF2/314-93	L	2	2	
Dr. Kornél Sailer	Finite Temperature Quantum Field Theory	PF2/327-95	L	2	2	
Dr. Kornél Sailer	Non-equilibrium Statistical Physics	PF2/313-93	L	2	2	
Dr. Kornél Sailer, Dr. Zsolt Schram	Models and Methods in Theoretical Physics	PF2/334-02	L	2	2	
Dr. Endre Somorjai	Nuclear Astrophysics	PF2/36-93	L	2	2	
Dr. János Timár	The rotating nucleus: an experimental view	PF2/337-11	L	2	2	
Dr. Zoltán Trócsányi	Standard Model	PF2/321-94	L	2	2	
Dr. Tamás Vertse	Numerical Methods in Practice	PF2/329-97	E	2	2	
Dr. Tamás Vertse	Nuclear Models I.-II.	PF2/35-93	L	2	2x2	2 semesters
Dr. László Végh	Advanced Quantum Mechanics	PF2/318-93	L+D	2+1	2	
Dr. László Zolnai	Angular Distribution Measurement of the Elastically Scattered alpha-particles	PF2/320-93	E	3	3	
Dr. László Zolnai	Sciencetechnology	PF2/332-00	L	2	2	

III. Program of **solid state physics and material science**

Name of the lecturer	Title of the course	Code	Character L,D,S,E	Hours/ week	Credit value	Remark
Dr. Dezső Beke	Solid State Physics I.-II.	PF3/31-93	L	2	2x2	2 semesters
Dr. Dezső Beke	Plastic Deformations and Fracture	PF3/319-93	L	2	2	
Dr. Dezső Beke	New Materials and Technologies	PF3/33-93	L	2	2	
Dr. Dezső Beke	Nonequilibrium Materials	PF3/322-94	L	2	2	
Dr. Dezső Beke	Micro- and nanomagnetism I.-II.	PF3/331-97	L	2	2x2	2 semesters
Dr. Dezső Beke	Advance Topics in Nanotechnology	PF3/341-12	L	2	2	

Dr. Csaba Cserháti	Electron Microscopy	PF3/316-93	L	2	2	
Dr. Attila Csík	X-ray related technics for solid state studies	PF3/346-14	L+E	2+1	2	
Dr. Lajos Daróczi	Martensitic transformations	PF3/342-13	L	2	2	
Dr. Gábor Erdélyi	Solid State Reactions	PF3/39-93	L	2	2	
Dr. Zoltán Erdélyi	Diffusion and Segregation in Nanostructures	PF3/339-02	L	2	2	
Dr. Zsolt Gulácsi	Theoretical Solid State Physics	PF3/32-93	L	2	2	
Dr. Zsolt Gulácsi, Dr. Dezső Beke	Phase-transitions I.-II.	PF3/35-93	L	2	2x2	2 semesters
Dr. Zsolt Gulácsi	Magnetism	PF3/320-93	L	2	2	
Dr. Zsolt Gulácsi	Many-body Calculation Techniques and Applications I.-II.	PF3/323-94	L	2	2x2	2 semesters
Dr. Zsolt Gulácsi	Quantum Phase Transitions	PF3/334-97	L	2	2	
Dr. Zsolt Gulácsi	Spin Glasses	PF3/335-97	L	2	2	
Dr. Zsolt Gulácsi	Polarization, Screening and Response Functions	PF3/336-98	L	2	2	
Dr. Zsolt Gulácsi (Dr. deChatel P.)	Description of Superconductivity	PF3/338-00	L	2	2	
Dr. Zsolt Gulácsi	Many-body systems in periodic potential	PF3/340-08	L	2	2	
Dr. Zsolt Gulácsi, (Dr. Miklós Gulácsi)	Theory of Strongly Correlated Systems	PF3/343-14	L	2	2	
Dr. Zsolt Gulácsi	Quantum information and quantum computation	PF3/344-14	L	2	2	
Dr. Ferenc Kun	Computer simulation I.-II.	PF3/327-95	L	2	2x2	2 semesters
Dr. Sándor Kökényesi	Solid State- and Optoelectronics	PF3/332-97	L	2	2	
Dr. László Kövér	Investigations of Solid State Surfaces	PF3/311-93	L	2	2	
Dr. László Kövér	Electronic Structure of Surface and Interface Formation	PF3/326-95	L	2	2	
Dr. Gábor Langer	Vacuumtechnique and Production of Thin Films	PF3/317-93	L	2	2	
Dr. Gábor Langer	Thin Films	PF3/324-94	L	2	2	
Dr. Sándor Mészáros	Superconductivity	PF3/36-93	L	2	2	
Dr. Sándor Mészáros	Modern Methods of Investigation in the Material Science	PF3/37-93	L	2	2	
Dr. István Szabó	Atomic resolution microscopy	PF3/329-96	L	2	2	
Dr. István Szabó	Intermetallic compounds	PF3/330-96	L	2	2	

Dr. István Szabó, (Dr. László Szunyogh)	Introduction to spintronics	PF3/345-14	L	2	2
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IV. Program of **physical methods in interdisciplinary researches**

Name of the lecturer	Title of the course	Code	Character L,D,S,E	Hours/ week	Credit value	Remark
Dr. György Csepura	Radiation protection	PF4/36-04	L	2	2	
Dr. István Csige	Subsurface Flow	PF4/315-12	L	2	2	
Dr. Julius Csikai	Application of Neutrons in Elemental Analysis	PF4/33-93	L	2	2	
Dr. Róbert Erdélyi	Waves	PF4/320-15	L	2	2	
Dr. Róbert Erdélyi	Solar Magnetohydrodynamics	PF4/321-15	L	2	2	
Dr. Róbert Erdélyi	Advanced Solar Magnetohydrodynamics	PF4/322-16	L	2	2	
Dr. Róbert Erdélyi	Sunpy	PF4/323-16	L	2	2	
Dr. Árpád Kiss et al.	Atomic- and Nuclear Microanalysis	PF4/31a-93	L	2	2	
Dr. Árpád Kiss et al.	Atomic- and Nuclear Microanalysis Labor	PF4/31b-93	E	4	4	connected to the prev. lectures
Dr. Zsófia Kertész, Dr. Mihály Molnár Dr. Zsófia Kertész	Atmosphere and Climate	PF4/39-09	L	2	2	
	Atmospheric Aerosol Sampling Procedures and Analysis Techniques Using Ion Beam and XRF	PF4/311-12	L	2	2	
Dr. Ferenc Kun	Computer simulation I.-II.	PF4/310-10	L	2	2x2	2 semesters
Dr. Ferenc Kun	Physics of Complex Systems	PF4/313-12	L	2	2	
Dr. Ferenc Kun, (Dr. Illés Farkas)	Perl Programming and Networks in Computational Biology	PF4/317-14	L	2	2	
Dr. Ferenc Kun, (Dr. Frank Raichel)	Criticality and Complex Systems	PF4/318-14	L	2	2	
Dr. Mihály Molnár, Dr. László Palcsu	Radioactive Dating	PF4/38-09	L	2	2	
Dr. Mihály Molnár,	Geochronology and Paleoclimate	PF4/316-13	L	2	2	

(Dr. Timothy Jull)						
Dr. Mihály Molnár	Meteorites, the Early Solar System and Nuclear Astrophysics	PF4/319-14	L	2	2	
(Dr. Ulrich Ott)						
Dr. Ágnes Nagy	Non-linear Phenomena, Chaos	PF4/312-12	L	2	2	
Dr. László Palcsu,	Nuclear Environmental Protection	PF4/37-09	L	2	2	
Dr. István Csige,						
Dr. Mihály Molnár						
Dr. Andrea Somogyi	Synchrotron radiation based X-ray microprobe methods	PF4/35-04	L	2	2	

V. Program of **particle physics**

Name of the lecturer	Title of the course	Code	Character L,D,S,E	Hours/ week	Credit value	Remark
Dr. István Angeli	High-Energy Accelerators I.-II.	PF5/31-95	L	2	2x2	2 semesters
Dr. József Cseh	Symmetries in Two-body and Many-body Systems	PF5/321-97	L	2	2	
Dr. Gábor Dávid, Dr. Sándor Nagy	Modelling, Simulation, Analysis in Experimental Particle Physics I.-III.	PF5/33-95	L	2	3x2	3 semesters
Dr. Gábor Dávid	Data Acquisition, Triggering and Online Monitoring	PF5/331-10	L	2	2	
Dr. Dezső Horváth	The Standard Model and its experimental tests I.-II.	PF5/326-00	L	2	2x2	2 semesters
Dr. Dezső Horváth	Experimental techniques of particle physics	PF5/327-01	L	2	2	
Dr. Tamás György Kovács	Statistical field theory	PF5/334-14	L	2	2	
Dr. Sándor Nagy	Quantum renormalization group	PF5/338-17	L	2	2	
Dr. István Nándori	Basics of functional renormalization group method	PF5/337-16	L	2	2	
Dr. Péter Raics	Particle Detectors	PF5/311-95	L	2	2	
Dr. Kornél Sailer	Introduction to Quantum Field Theory	PF5/312-95	L	2	2	

Dr. Kornél Sailer	Symmetries and Symmetry Breaking in Quantum Field Theory I.-II.	PF5/314-95	L	2	2x2	2 semesters
Dr. Kornél Sailer	General Relativity	PF5/323-98	L	2	2	
Dr. Kornél Sailer, Dr. Sándor Nagy	Functional renormalization group method	PF5/333-13	L	2	2	
Dr. Kornél Sailer	Finite Temperature Quantum Field Theory	PF5/334-13	L	2	2	
Dr. Kornél Sailer	Cosmology	PF5/335-14	L	2	2	
Dr. Zsolt Schram	Lattice Field Theory	PF5/322-97	L	2	2	
Dr. Zsolt Schram	Variational principles of theoretical physics	PF5/332-11	L	2	2	
Dr. Gábor Somogyi	Methods of computing Feynman integrals	PF5/336-15	L	2	2	
Dr. Zoltán Trócsányi	Standard Model	PF5/317-95	L	2	2	
Dr. Zoltán Trócsányi	Grand Unified Theories	PF5/318-95	L	2	2	
Dr. Zoltán Trócsányi	Perturbative Quantum Chromodynamics I.-II.	PF5/320-97	L	2	2x2	2 semesters
Dr. Gyula Zilizi	Electronics in the Experimental Particle Physics	PF5/316-95	L	2	2	

Abbreviations: L = Lectures, D = Discussions, S = Seminars, E = Exercises

List of the research topics registered till 2017

I. Program of **atomic- and molecular physics**

Supervisor	Title of the research topics	Code	Open for 2015 Students/From
Dr. Sándor Biri	Investigation of highly charged heavy ion plasmas	PF1/427-03	-
Dr. László Gulyás	Many-electron processes in simple atomic and molecular collisions	PF1/442-15	+
Dr. Gábor Halász	The role of degeneracy in molecular systems	PF1/436-08	-
Dr. László Kövér	Chemical and solid-state effects in Auger transitions	PF1/420-95	+
Dr. Ágnes Nagy	Density functional theory	PF1/43-93	+
			István Andrejkovics/93 Péter Süle/93 Tamás Gál/96
Dr. Ágnes Nagy	Quantum phase transitions, classical and quantum chaos	PF1/439-13	-
Dr. József Pálinkás	The role of the electron-electron interaction in ion-atom collision processes	PF1/49-93	-
			Attila Báder/94
Dr. József Pálinkás	Simulation of the charge changing processes in an ECR plasma	PF1/424-97	-
			Csaba J. Koncz/97
Dr. József Pálinkás	Changes on the surface of solids caused by bombardment with exotic ions	PF1/432-08	-
Dr. József Pálinkás	Investigation of the plasma of an ECR ion source with X-ray spectroscopic methods	PF1/433-08	-
Dr. József Pálinkás	The role of atomic physics processes in the formation of plasma-states	PF1/440-13	-
Dr. Sándor Ricz	Influence of the post collision interaction on the angular distribution of Auger electrons	PF1/412-93	+
			László Tóth/93 György Viktor/93 Levente Ábrók/15
Dr. Sándor Ricz	Investigation of laser photon-matter interaction with method of high energy resolution angle resolved photo-electron spectroscopy (HAPES)	PF1/438-13	-
Dr. László Sarkadi	Investigations of forward electron emission in atomic collisions	PF1/410-93	-
			Ljiljana Viktor/93

Dr. Béla Sulik	Detailed study of the ionization processes by measuring multiple differential electron ejection cross section in ion-atom collisions	PF1/422-96	-
Dr. Béla Sulik	Relativistic atomic physics at storage rings	PF1/429-06	-
Dr. Béla Sulik	Atomic and molecular collisions relevant for radiation damages in bio-molecules and some ion technology processes	PF1/434-08	-
Dr. Béla Sulik	The interaction of insulator nanocapillaries with ions: Ion-beam guiding and focusing	PF1/435-08	-
Dr. Károly Tókési	Interaction of charged particles with atoms and surfaces	PF1/428-03	+
Dr. Ágnes Vibók and Dr. Gábor Halász	Photo-induced nonadiabatic quantum molecular dynamics	PF1/431-08	-
Dr. Ágnes Vibók	Laser-induced nonadiabatic processes in molecular systems	PF1/437-11	-
Dr. Ágnes Vibók	Photo-induced electron and nuclear dynamics in molecules on an attosecond to few femtosecond time scale	PF1/441-14	-

II. Program of **nuclear physics**

Supervisor	Title of the research topics	Code	Open for 2015 Students/From
Dr. Julius Csikai Dr. József Cseh	Investigation of fast neutron dosimetry and therapy Developments and applications of algebraic nuclear models	PF2/42-93 PF2/43-93	- +
Dr. Julius Csikai,	Determination of differential and integral neutron data for applications	PF2/424-95	-
Dr. Julius Csikai, Dr. Péter Raics and Dr. Ferenc Tárkányi	Application of cyclotron neutron source in science and technology	PF2/44-93	-
Dr. Julius Csikai and Dr. Sándor Sudár	Investigation of fast neutron induced reactions	PF2/45-93	-
Dr. Julius Csikai	Bulk media assay by neutrons and gamma-rays	PF2/429-97	-
Dr. Julius Csikai	Application of nuclear methods for identification	PF2/430-01	-

	of illicit materials			
Dr. Julius Csikai	Chemical analytical applications based on prompt-gamma radiation	PF2/414-93	-	
Dr. Julius Csikai	Determinations of hydrogen content and the C/H atomic ratio in bulk samples using neutrons	PF2/440-08	-	
Dr. Julius Csikai	Measurements of leakage neutron spectra and reaction cross-sections	PF2/441-08	-	
Dr. Zsolt Dombrádi	Nuclear structure studies by use of radioactive beams	PF2/451-10	-	
Dr. Zoltán Elekes	Experimental study of exotic nuclei	PF2/454-13	+	
Dr. Zsolt Fülöp	Studies in nuclear astrophysics	PF2/436-06	-	
Dr. Zsolt Fülöp	Studies in exotic nuclear physics	PF2/437-06	-	
Dr. Zsolt Fülöp	Study of the life time of radioactive nuclei	PF2/449-10	-	
Dr. János Gál	Investigation of charged particle detectors used for nuclear physics experiments	PF2/427-96,	-	
Dr. György Gyürky and Dr. Zoltán Elekes	Study of nuclear reactions relevant for the synthesis of heavy elements	PF2/453-11	-	
Dr. György Gyürky	Experimental study of astrophysically relevant radiative capture reactions	PF2/455-17	-	
Dr. Gábor Gyula Kiss	Explosive nucleosynthesis scenarios	PF2/456-17	-	
Dr. Attila Krasznahorkay	Nuclear spectroscopy investigation of the super-deformed states in the actinide region	PF2/48-93	-	Mátyás Hunyadi/95
Dr. Attila Krasznahorkay	Study of giant resonances and measurement of neutron-skin thicknesses in radioactive beams	PF2/431-02	-	
Dr. Attila Krasznahorkay	Probing a light neutral boson in internal pair creation	PF2/446-08	+	
Dr. András Kruppa	Symbolic and numerical computational methods of few body problems of quantum mechanics	PF2/447-08	-	
Dr. Géza Lévai	Potential problems of quantum mechanics and their applications	PF2/427-96	-	Tamás Francia/96
Dr. István Lovas	Phase transitions of nuclear matter periodic structures of nuclear matter	PF2/410-93	-	
Dr. István Lovas and Dr. László Kovács	Astronomy in the Teaching Physics (The use of Nuclear Physics)	PF2/435-02	-	
Dr. Rezső Lovas	Microscopic description of nuclear systems;	PF2/411-93	-	

Dr. Rezső Lovas	Nuclear fission with swift fragments	PF2/443-08	-
Dr. József Molnár	Digital processing of detector signals applied in nuclear medicine and in nuclear physics	PF2/445-08	-
Dr. József Molnár	Development of Position Sensitive Detector Systems with Digital Signal Processing Electronics for Nuclear Physics and Medical Imaging	PF2/450-10	-
Dr. Barna Nyakó	Study of the structure of medium-heavy nuclei in heavy-ion reactions; Extreme nuclear deformations	PF2/413a-93	-
Dr. Barna Nyakó	Study of the structure of medium-heavy nuclei in heavy-ion reactions; Shape changes in nuclei	PF2/413b-93	-
Dr. Péter Raics	Teaching Nuclear Physics in Secondary School; Nuclear transmutations and their importance in energetics	PF2/434a-02	-
Dr. Péter Raics	Teaching Nuclear Physics in Secondary School; Interaction of radiations with matter	PF2/434b-02	-
Dr. Péter Raics	Teaching Nuclear Physics in Secondary School	PF2/444-08	-
Dr. Kornél Sailer and Dr. Sándor Nagy	Non-locality in quantum mechanics in quantum field-theoretic terms	PF2/439-07	-
Dr. Kornél Sailer and Dr. Sándor Nagy	Functional renormalization group for open quantum systems	PF2/452-11	-
Dr. Zsolt Schram	Thermodynamics in non-abelian lattice gauge theories	PF2/442-08	-
Dr. Dorottya Kunné Sohler	Nuclear structure studies by gamma-spectroscopic methods	PF2/448-09	-
Dr. Endre Somorjai	Experimental study of astrophysical p-process	PF2/432-02	-
Dr. Ferenc Tárkányi	Investigation of cross sections of charged particle induced nuclear reactions for basic science	PF2/418a-93	-
Dr. János Timár	Interaction between collective and individual motions in rotating nuclei	PF2/438-06	-
Dr. Ferenc Tárkányi	Investigation of cross sections of charged particle induced nuclear reactions for application in practice	PF2/418b-93	-
Dr. Zoltán Trócsányi	Next-to-leading order calculations in perturbative QCD	PF2/423-94	-
Dr. Tamás Vertse	Calculation of the continuum in spherical and deformed potentials using complex scaling	PF2/419-94	-

III. Program of **solid state physics and material science**

Supervisor	Title of the research topics	Code	Open for 2015 Students/From
Dr. Dezső Beke	Martensitic transformation in shape memory alloys	PF3/428-99	-
Dr. Dezső Beke (Dr. Miklós Kis Varga)	Production of nanocrystalline metastable alloys by mechanical alloying	PF3/414b-95	-
Dr. Dezső Beke	Production and magnetic properties of nanocrystalline materials	PF3/421-97	-
Dr. Dezső Beke	Investigation of semiconductor nanostructures	PF3/442-05	-
Dr. Dezső Beke	Nanodiffusion	PF3/443-05	-
Dr. Dezső Beke	Smart materials: Investigation of metallic and polymer shape memory materials	PF3/448-08	-
Dr. Dezső Beke	Investigation of noisy character of phase transformations	PF3/456-17	-
Dr. Csaba Cserhádi	Investigation of Kirkendall shift on the nanoscale	PF3/455-16	-
Dr. Csaba Cserhádi	Risk based approaches in reliability assessment of corroded pressurised equipments in oil- and gas industry	PF3/457-17	-
Dr. Lajos Daróczi	Statistical noises in martensitic materials	PF3/453-13	+ László Zoltán Tóth/13 Melinda Bolgár/15
Dr. Gábor Erdélyi	Investigation of diffusion processes in oxide-ceramics	PF3/45-93	- Miklós Barkóczy/94 István Vallasek/94
Dr. Gábor Erdélyi	Grain boundary diffusion in nanostructured materials	PF3/422-97	-
Dr. Gábor Erdélyi	Grain boundary transport and segregation in intermetallic compounds	PF3/429-99	-
Dr. Gábor Erdélyi	Diffusion phenomena in amorphous and crystalline systems	PF3/447-08	-
Dr. Zoltán Erdélyi	Investigation of diffusion and solid state reactions in thin layers: experiments and simulations	PF3/451-10	-
Dr. Zoltán Erdélyi	Study of nanostructured materials of high application potential	PF3/454-14	+
Dr. Zsolt Gulácsi	Theoretical study of $t - J$ model	PF3/431-99	-
Dr. Zsolt Gulácsi	Variational description of the strongly correlated systems	PF3/42-93	- Zsolt Szabó/94
Dr. Zsolt Gulácsi	Theoretical study of lattice models in low-concentration	PF3/432-99	-

	limit			
Dr. Zsolt Gulácsi	Exact solutions related to many-body systems	PF3/417-96	+	
Dr. Zsolt Gulácsi	Superconducting properties in layered compounds	PF3/413-95	-	Péter Gurin/96
Dr. Zsolt Gulácsi	Theoretical study of the periodic Anderson model	PF3/423-97	-	Iván Orlik/97
Dr. Zsolt Gulácsi	Ordered phases in layered systems	PF3/424-97	-	
Dr. Zsolt Gulácsi	Characterization of strongly correlated systems	PF3/ 452-11	+	
Dr. Gábor Katona	Structural transformations in thin films	PF3/459-17	-	
Dr. Sándor Kökényesi and Dr. Biri Sándor	Photostimulated processes in semiconductor nanostructures	PF3/436-02	+	
Dr. Sándor Kökényesi	Size-limited characteristics of semiconductor nanocomposites	PF3/437-02	+	
Dr. Sándor Kökényesi	Radiation stimulated transformations in amorphous material and its application in optoelectronics	PF3/438-02	+	
Dr. László Kövér	Chemical and solid-state effects in Auger transitions	PF3/416-95	+	
Dr. Ferenc Kun	Study of non-equilibrium processes of magneto- and electrorheological fluids	PF3/440-03	+	Imre Varga/02
Dr. Ferenc Kun	Study of fractures and fragmentation processes in solid states	PF3/444-06	+	
Dr. Gábor Langer	Production and investigation of physical properties of metallic multilayers	PF3/49-93	-	Andrian V. Dudás/94
Dr. Gábor Langer	Investigation of thermal stability of multilayers	PF3/433-99	-	
Dr. Sándor Mészáros	Dynamics of magnetic flux in grain boundary junctions of high temperature	PF3/43-93	-	József Lindmájér/95
Dr. Ákos Nemcsics	Investigation of molecular-beam-epitaxially grown GaAs-based nano-structures	PF3/458-17	-	
Dr. István Szabó	Diffusion studies in intermetallic compounds	PF3/430-99	-	
Dr. István Szabó	Study of nanostructured materials by scanning probe microscopy	PF3/427-98	-	
Dr. István Szabó	Application of magnetic noises in material science	PF3/445-07	-	
Dr. István Szabó	Sensor and measurement developments to biomechanical studies	PF3/449-09	+	János Kiss/15
Dr. Kálmán Vad	Investigation of the magnetic flux dynamics in superconducting thin films	PF3/415-95	-	

Dr. Kálmán Vad	Relaxation phenomena in magnetic structures	PF3/425-95	-	László Kerekes/97
Dr. Kálmán Vad	Investigation of thin film solar cells	PF3/450-09	-	

IV. Program of **physical methods in interdisciplinary researches**

Supervisor	Title of the research topics	Code		Open for 2015 Students/From
Dr. István Csige	Radon in mofettes	PF4/421-02	-	
Dr. István Csige	Characterization of radon potential of building sites	PF4/430-09	-	
Dr. István Csige	Hydrodynamic modeling of contaminated subsurface flows	PF4/440-13	-	
Dr. Julius Csikai	Improvement of solid state nuclear track-etched detector techniques and their applications.	PF4/422-03	-	Krisztián Hámori/03
Dr. Julius Csikai	Detection and identification of illicit drugs, explosives and anti-personnel landmines using neutron based techniques	PF4/434-10	-	
Dr. Julius Csikai and Dr. András Fenyvesi	Investigations on excitation functions of neutron induced reactions in the 8-12 MeV problem range	PF4/435-10	-	
Dr. Róbert Erdélyi	Role of marcospicules in the dynamcis of the solar atmosphere	PF4/442-15	+	Tamás Sándor Kiss/15
Dr. András Fenyvesi	Radiation damage and radiation protection problems caused by fast neutrons	PF4/433-10	-	
Dr. Róbert Huszánk	Investigation of physical and chemical effects of ion irradiation on different materials and their possible applications	PF4/444-17	-	
Dr. Zsófia Kertész	Characterization of atmospheric aerosols by nuclear microanalytics	PF4/438-11	+	
Dr. Árpád Kiss	Application of ion beam analysis techniques to the investigation of archaeological findings and art-objects	PF4/412-94	-	
Dr. Ferenc Kun	Study of fractures and fragmentation processes in solid states	PF4/436-11	+	
Dr. Ferenc Kun	Dynamics and statistics of avalanches in complex systems	PF4/437-11	+	
Dr. Mihály Molnár	Environmental impact of nuclear power plants	PF4/418-99	-	
Dr. Mihály Molnár	Development of alternative methods for detection of fossil carbon-dioxide in the atmosphere	PF4/431-09	+	

Dr. István Nándori	Theoretical study of relaxation in magnetic nanoparticle systems	PF4/439-12		
Dr. László Palcsu	Development and application of novel analytical methods in palaeoclimatology and isotope hydrology	PF4/441-14	-	
Dr. László Palcsu	Noble gases dissolved in fluid inclusions of dripstones as climate change indicators hydroecological state of the catchment area of upper Tisza Region	PF4/427-08	-	
Dr. Zoltán Papp	Investigation of the behaviour of radon and its progeny in outdoor and indoor air	PF4/426-08	-	
Dr. István Rajta	Proton Beam Micromachining	PF4/432-09	+	István Vajda/15
Dr. Zita Szikszai	Ion beam analytical methods in heritage science	PF4/443-17	-	
Dr. Imre Uzonyi	Ion beam microanalysis in geological research	PF4/429-08	-	

V. Program of **particle physics**

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Dr. Gábor Dávid	Neutral meson production in Au+Au collisions at RHIC	PF5/424-02	+	
Dr. Gábor Dávid	Sources of direct photons in heavy ion collisions at RHIC	PF5/425-02	+	
Dr. Gábor Dávid	Search for signatures of the Quark-Gluon Plasma in Au+Au collisions at RHIC	PF5/426-02	-	
Dr. Dezső Horváth	Test of the equivalence of matter and antimatter at the Antiproton Decelerator of CERN	PF5/440-10	-	
Dr. Tamás György Kovács	Quantum-chromodynamics on the lattice	PF5/443-13	-	
Dr. Sándor Nagy	Functional renormalization group method in quantum theories	PF5/446-15	-	
Dr. István Nándori	Renormalization group method and phase transitions	PF5/441-11	-	Viktória Borbélyné Bacsó/14
Dr. István Nándori	Compactness, differentiability and renormalization	PF5/448-16	-	
Dr. Kornél Sailer and Dr. Sándor Nagy	Functional renormalization group for open quantum systems	PF5/442-12	+	József Kovács/12 Zoltán Péli/15
Dr. Zsolt Schram	Topological excitations and quark confinement	PF5/439-08	-	
Dr. Zsolt Schram	Thermodynamics in non-abelian lattice gauge theories	PF5/447-15	-	

Dr. Gábor Somogyi	Describing elementary particle collisions with high precision	PF5/445-15	
Dr. Zoltán Trócsányi	Calculation of radiative corrections in perturbative QCD	PF5/428-02	-
Dr. Zoltán Trócsányi	Searching for new particles with the CMS detector at the LHC	PF5/438-08	-
Dr. Balázs Ujvári	Simulation of the experiment measuring the weight of the neutrino	PF5/449-16	-
Dr. Balázs Ujvári	Hardware development in particle physics	PF5/450-16	-
Dr. Viktor Veszprémi	Search for supersymmetric particles using the CMS detector at the Large Hadron Collider	PF5/444-14	-

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Programs:

Name

- I. Atomic and Molecular physics

- II. Nuclear Physics
- III. Solid State Physics and Material Science
- IV. Physical Methods in Interdisciplinary Researches
- V. Particle Physics

Abbreviations:

M. of H. A. S. = Member of the Hungarian Academy of Sciences

D. Sc. = Doctor of Sciences in Physics

C. Sc. = Candidate of Sciences in Physics

INR HAS = Institute of Nuclear Research of the Hungarian Academy of Sciences, Debrecen, Bem tér 18/c, Hungary

AJU = Attila József University, Szeged, Hungary

CRIC HAS = Central Research Institute for Chemistry of the Hungarian Academy of Sciences, Budapest, Hungary

UD-INR HAS = UD-INR HAS Joint Physical Department, Debrecen, Bem tér 18/c, Hungary

ITP UD = Institute of Theoretical Physics of the University of Debrecen, Debrecen, Bem tér 18/c, Hungary

IAI UD = Institute of Application of Isotopes of the University of Debrecen, Debrecen, Egyetem tér 1., Hungary

IEP UD = Institute of Experimental Physics of the University of Debrecen, Debrecen, Bem tér 18/a, Hungary

ISSP UD = Institute of Solid State Physics of the University of Debrecen, Debrecen, Egyetem tér 1., Hungary

FI UD = Faculty of Informatics of the University of Debrecen, Debrecen, Egyetem tér 1., Hungary

HNGI = Hungarian National Geological Institute, Budapest, Hungary

PU = Purdue University, West Lafayette, IN, USA

REU = Roland Eötvös University, Budapest, Hungary

RITP HAS = Research Institute for Technological Physics of the Hungarian Academy of Sciences, Budapest, Hungary

RIPNP HAS = Research Institute for Particle and Nuclear physics of the Hungarian Academy of Sciences, Budapest, Hungary

SUNY = Stony Brook University, NY, USA

TUT = Technical University at Temesvár, Romania

UA = University of Alabama, Tuscaloosa, AL, USA

UU = University of Uzhgorod, Ukraine

Wigner = MTA-DE Particle Physics Research Group

HAS-UD PPRG = Hungarian Academy of Sciences-University of Debrecen Particle Physics Research Group

UÓ = University Óbuda