

## TIM 2014 SESSION MATRIX

Thursday, 20 of November 2014	
Faculty of Physics 1 <sup>st</sup> Floor	
09:00	Participants Arrival
16:00	Registration Desks Open
19:00	Evening Cocktail Reception

### WHERE TO FIND THE CONFERENCE ROOMS

- **Faculty of Physics** – go right as you enter the University until the very end of the Hallway, last entrance on right is ground floor (look for "Facultatea de Fizica" sign), stairs are at the end of the Hallway for 1st and 2nd floors (on both sides of the Faculty hallways)
- **A01** – go right as you enter the University, first amphitheatre on your left (entrance from main hall or from side corridor)
- **F203** – Faculty of Physics 2nd Floor
- **F205** – Faculty of Physics 2nd Floor
- **F206** – Faculty of Physics 2nd Floor
- **Conference Banquet** – "Cantina Politehnica", Str. Alexandru Vaida-Voievod, Student Campus, Timisoara

*For any issues you may have during your stay, feel free to ask one of the organizers who will have marked badges!*

**Friday, 21st of November 2014**

	A01	F203	F205	F206
08:00	REGISTRATION			
08:20	Opening Ceremony Plenary Session 1			
09:00				
09:30				
10:00	Coffee Break			
10:30	Plenary Session 2			
11:00				
11:30				
12:00				
12:30	Lunch Break <i>Faculty of Physics 1st Floor</i>			
13:00	API Session 1	CMP Session 1		TCP Session 1
13:30				
14:00				
14:30				
15:00				
15:30				

Friday, 21st of November 2014				
	A01	F203	F205	F206
16:00	Coffee Break			
16:30	API Session 2	CMP Session 2		TCP Session 2
17:00				
17:30				
18:00				
18:30	Coffee Break			
19:00	Poster Session 1 (CMP+TCP)			
19:30	<i>Aula Magna Reception Hall</i>			
20:00	Conference Banquet			

Saturday, 22nd of November 2014				
Hour	A01	F203	F205	F206
09:00	Plenary Session 3			
09:30				SEENET-MTP
10:00				Committee Meeting
10:30	Coffee Break			
11:00	Poster Session 2 (API)			
	<i>Aula Magna Reception Hall</i>			
11:30	API Session 3	TCP Session 3	EP Session 1 Poster Session 3 (EP)	TCP Session 4
12:00				
12:30				
13:00				
14:00	Meeting and Departure to Recas ( <i>University Main Entrance</i> )			

Sunday, 23th of November 2014	
09:00	Participants Departure

All participants should note that the Registration desk will be available throughout the conference duration.

**Friday, 21st of November 2014**

**A01**

7:45-08:15

MORNING REGISTRATION

**Plenary Session 1**

*Chairman: Madalin Bunoiu*

08:15-08:30

OPENING CEREMONY

08:30-09:00

**PL-01**

ELI-NP: A FACILITY FOR NUCLEAR PHYSICS RESEARCH

**Calin Alexandru Ur**

09:00-09:30

**PL-02**

CONFORMAL INVARIANCE, GRAVITY AND ANOMALIES

**Loriano Bonora**

09:30-10:00

**PL-03**

KINETIC ROUGHENING OF A SOFT DEWETTING LINE – A NOVEL COMPUTER SIMULATION METHOD

Botond Tyukodi, Yves Brechet and **Zoltan Neda**

10:00-10:30

**PL-04**

MOLECULAR AGING

**Bela Viskolcz**

**Faculty of Physics – First Floor**

10:30-11:00

**Coffee Break**

**A01****Plenary Session 2***Chairman: Mihai Girtu*

11:00-11:30	<b>PL-05</b>	EXCHANGE ENHANCED PARAMAGNETISM OF RARE-EARTH (YTTRIUM)-TRANSITION METAL COMPOUNDS <b><u>Emil Burzo</u></b>
11:30-12:00	<b>PL-06</b>	THE CHALLENGE OF SPECIAL MATERIALS NEEDED IN EXPERIMENTS SEARCHING FOR RARE EVENT PHYSISCS <b><u>Ioan Dafinei</u></b>
12:00-12:30	<b>PL-07</b>	INTERFACE AND BULK RADIATION INDUCED EFFECTS IN SI-BASED SENSORS <b><u>Ioana Pintilie</u></b>
12:30-13:00	<b>PL-08</b>	TIGHT-BINDING VIBRATIONAL ANALYSIS OF SINGLE-WALL CARBON NANOTUBES <b><u>Titus Beu</u></b> and Alexandra Farcas

**Faculty of Physics – First Floor**

13:00-14:00	<b>LUNCH</b>
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**A01****API Session 1***Chairman: Vlad Socoliuc*

14:00-14:30	<b>AI-I01</b>	PERSPECTIVES FOR NEUTRON AND GAMMA SPECTROSCOPY IN HIGH POWER LASER DRIVEN EXPERIMENTS AT ELI-NP [ <i>invited</i> ] <b>Florin Negoita</b> , M. Gugiu, H. Petrascu, C. Petrone, D. Pietreanu, J. Fuchs, S. Chen, D. Higginson, L. Vassura, F. Hannachi, M. Tarisien, M. Versteegen, P. Antici, D. Balabanski and S. Balascuta
14:30-15:00	<b>AI-I02</b>	SELF-ASSEMBLY OF SMALL MOLECULES INTO ONE-DIMENSIONAL AGGREGATES [ <i>invited</i> ] <b>Ioan Turcu</b> , Mihaela Mic and Mircea Bogdan
15:00-15:15	AI-O01	GROWTH EVOLUTION OF SPUTTERED ZINC OXIDE THIN FILM <b>Cristina Besleaga</b> , Aurelian-Catalin Galca, George E. Stan, Corneliu Ghica and Iuliana Pasuk
15:15-15:30	AI-O02	NON-INVASIVE CHARACTERIZATION OF AI – DOPPED ZnO BASED TRANSPARENT CONDUCTIVE OXIDES <b>Liliana Marinela Trinca</b> , Luminita Mirela Hrib and Aurelian Catalin Galca
15:30-15:45	AI-O03	A METHOD TO PRECISELY IDENTIFY THE AFTER-PULSES WHEN USING THE S 9717 AVALANCHE PHOTODIODE <b>Alexandru Rusu</b> and L. Rusu
15:45-16:00	AI-O04	NANOPARTICLES TRAPPING FROM FLUE GAS USING DIELECTROPHORESIS <b>Adrian Neculae</b> , Antoanetta Lungu, Madalin Bunoiu and Mihai Lungu

**F203****CMP Session 1***Chairman: Lucian Gheorghe*

14:00-14:30	<b>CM-I01</b>	PHOTOELECTRON SPECTROSCOPY AND SPECTROMICROSCOPY ON FERROELECTRIC SINGLE CRYSTAL LAYERS <i>[invited]</i> Laura Elena Stoflea, Liviu Cristian Tanase, Dana Georgeta Popescu, Marius Adrian Husanu, Nicoleta Georgiana Apostol, Alexei Barinov and <b><u>Cristian Mihail Teodorescu</u></b>
14:30-15:00	<b>CM-I02</b>	FABRICATION OF CORE-SHELL NANOWIRES COMPOSED OF SILICON AND GERMANIUM <i>[invited]</i> <b><u>Thomas David</u></b> , A. Benkouider, M. Cabie, L. Favre, A. Ronda, K. Liu, M. Abbarchi, M. Naffouti, A. Delobbe, I. Berbezier
15:00-15:30	<b>CM-I03</b>	PHOTOVOLTAIC/PYROELECTRIC EFFECTS IN FERROELECTRIC THIN FILMS <i>[invited]</i> <b><u>Lucian Pintilie</u></b> , Ioana Pintilie, Mihaela Botea and Viorica Stancu
15:30-15:45	CM-O01	THIN FILMS OF GE1SB2TE4 PREPARED BY PULSED LASER DEPOSITION Maria Jigau, <b><u>Gabriela Eugenia Iacobescu</u></b> and Mariana Osiac
15:45-16:00	CM-O02	THE QUANTIZATION OF MESOSCOPIC LC-CIRCUITS. BASIC IDEAS AND APPLICATIONS <b><u>Erhardt Papp</u></b> , Codruta Micu and Dania Racolta



**F206****TCP Session 1 - COMISIS***Chairman: Dumitru Vulcanov*

14:00-14:30	<b>TC-I01</b>	ON ANTI-DE SITTER OSCILLATORS AND DE SITTER ANTI-OSCILLATORS [ <i>invited</i> ] <b><u>Ion Cotaescu</u></b>
14:30-14:45	TC-001	LIFETIMES OF SUPERHEAVY NUCLEI AROUND DOUBLE MAGIC NUCLEUS Hs(270) <b><u>Ion Silisteanu</u></b> and Claudia Ioana Anghel
14:45-15:00	TC-002	TECHNIQUES FOR CHAOS CONTROL IN NONLINEAR ELECTRONIC CIRCUITS <b><u>Radu Constantinescu</u></b> , Carmen Ionescu, Emilian Panaintescu and Iulian Petrisor
15:00-15:15	TC-003	STATISTICAL ANALYSIS OF THE OPTICAL INTRADAY VARIABILITY OF BL LAC S5 0716+714 Bogdan Danila, <b><u>Alexandru Marcu</u></b> and Gabriela Raluca Mocanu
15:15-15:30	TC-004	ROTATING FERMIONS INSIDE A CYLINDER <b><u>Victor Eugen Ambrus</u></b> and Elizabeth Winstanley
15:30-15:45	TC-005	SCATTERING OF DIRAC FERMIONS IN SCHWARZSCHILD GEOMETRY Ion Cotaescu, Cosmin Crucean and <b><u>Ciprian Sporea</u></b>
15:45-16:00	TC-006	GAUGE THEORIES FROM GAUGE UNFIXING OF MAXWELL-CHERN-SIMONS PROCA MODEL <b><u>Silviu-Constantin Sararu</u></b>

**Faculty of Physics – First Floor**

16:00-16:30	<b>Coffee Break</b>
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**A01****API Session 2***Chairman: Ioan Turcu*

16:30-17:00	<b>AI-I03</b>	ORTHOGONAL FUNCTIONS AND POLYNOMIAL SERIES FOR CALCULUS OF VARIATIONS AND ITS APPLICATIONS TO PHYSICAL PROBLEMS [ <i>invited</i> ] <b><u>Mohsen Razzaghi</u></b>
17:00-17:30	<b>AI-I04</b>	AIRCRAFT NOISE REDUCTION [ <i>invited</i> ] <b><u>Agneta Balint</u></b> and Stefan Balint
17:30-17:45	AI-O05	AERONET OPTICAL PARAMETERS UNDER THE INFLUENCE OF AIRCRAFT PARTICLE EMISSIONS <b><u>Bogdan Albina</u></b> , Marius Mihai Cazacu, Adrian Timofte and Silviu Gurlui
17:45-18:00	AI-O06	ELECTRO OSMOSIS – THE PAST AND THE FUTURE IN CIVIL ENGINEERING <b><u>Gabriela Pavlendova</u></b> and Jozefa Lukovicova
18:00-18:15	AI-O07	SPATIAL MODELLING OF THE NO2 CONCENTRATION DATA IN URBAN AREA <b><u>Carmelia Mariana Dragomir</u></b> , Daniel Constantin, Mirela Voiculescu, Lucian Georgescu, Alexis Merlaud and Michel Van Roozendael
18:15-18:30	AI-O08	MULTI-APERTURE AND MULTI-SPECTRAL SPACE OBSERVATION SYSTEM <b><u>Vlad Turcu</u></b>

**F203****CMP Session 2***Chairman: Cristian Mihail Teodorescu*

16:30-17:00	<b>CM-I04</b>	NEW CO(II) COMPLEXES AS ELECTROLYTES FOR DYE-SENSITIZED SOLAR CELLS – ELECTRON TRANSFER AND DYE REGENERATION [ <i>invited</i> ] Corneliu Ioan Oprea, Marilena Ferbinteanu, Daniela Stamate, Petre Panait, Anamaria Trandafir, Adrian Trandafir, Fanica Cimpoesu and <u>Mihai Girtu</u>
17:00-17:30	<b>CM-I05</b>	PHASE DIAGRAM AND EXCITATIONS OF A SHIBA MOLECULE [ <i>invited</i> ] N. Y. Yao, <u>Pascu Catalin Moca</u> , I. Weymann, J. D. Sau, M. D. Lukin, E. A. Demler and G. Zarand
17:30-18:00	<b>CM-I06</b>	NOVEL CRYSTALS FOR YELLOW-ORANGE LASERS [ <i>invited</i> ] <u>Lucian Gheorghe</u> , Cristina Gheorghe, Alexandru Achim, Flavius Voicu and George Stanciu
18:00-18:15	CM-O03	BLUE LIGHT PRODUCTION BY TYPE-I NON-CRITICAL PHASE MATCHING SECOND HARMONIC GENERATION IN $\text{La}(\text{Ca}_{1-x}\text{Sr}_x)_4\text{O}(\text{BO}_3)_3$ : CRYSTAL GROWTH AND NONLINEAR CHARACTERIZATION <u>Alexandru Achim</u> , Lucian Gheorghe, George Stanciu and Flavius Voicu
18:15-18:30	CM-O04	ELECTRONIC STRUCTURE AND SPIN-POLARIZED TRANSPORT CHARACTERISTICS OF CAC/MGS/CAC (001) HETEROJUNCTIONS <u>Petru Vlaic</u> and Emil Burzo

**F206****TCP Session 2***Chairman: Goran Djordjevic*

16:30-17:00	<b>TC-102</b>	ON THE FIRST-ORDER FORMALISMS FOR A MASSLESS TENSOR GAUGE FIELD OF DEGREE $(k+1)$ [ <i>invited</i> ] <b><u>Eugen-Mihaita Cioroianu</u></b>
17:00-17:15	TC-007	NATURAL DISCRETIZATION IN NONCOMMUTATIVE FIELD THEORY <b><u>Ciprian Sorin Acatrinei</u></b>
17:15-17:30	TC-008	ON THE ISOMETRY GROUP FOR A CLASS OF PLANARY SYMMETRIC METRICS IN NULL-COORDINATE FORMULATION <b><u>Ciprian Cretu</u></b> and Ciprian Dariescu
17:30-17:45	TC-009	FOLIATED BACKGROUNDS FOR M-THEORY COMPACTIFICATIONS <b><u>Elena Mirela Babalic</u></b> and Iuliu Calin Lazaroiu
17:45-18:00	TC-010	GAUSSIAN GEOMETRIC DISCORD IN TERMS OF HELLINGER DISTANCE <b><u>Serban Suci</u></b> and Aurelian Isar
18:00-18:15	TC-011	ENTANGLEMENT EVOLUTION OF A TWO-MODE GAUSSIAN SYSTEM IN VARIOUS ENVIRONMENTS <b><u>Tatiana Mihaescu</u></b> and Aurelian Isar
18:15-18:30	TC-012	FRW UNIVERSE MODELS WITH NEGATIVE CURVATURE <b><u>Adrian Bodnarescu</u></b> , Ciprian Dariescu and Marina-Aura Dariescu

**Aula Magna Reception Hall**

18:30-19:30	<b>Coffee Break and CMP+TCP Poster Session</b>
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**Cantina Politehnica 1 – Complex**

20:00-23:00

**Conference Banquet**

**Saturday, 22<sup>nd</sup> of November 2014**

**A01**

**Plenary Session 3**

*Chairman: Titus Beu*

09:00-09:30

**PL-09**

OXIDE THIN FILMS FOR TRANSPARENT ELECTRONIC, SPINTRONIC AND SENSOR DEVICES

**Felicia Iacomi**

09:30-10:00

**PL-10**

RESONANCES AND MULTI-CORE EFFECTS IN THE REACTIVE COLLISIONS OF ELECTRONS WITH MOLECULAR CATIONS AND RELATED PROCESSES

N. Pop, S. Ilie, S. Niyonzima, M. D. Epée Epée, B. Pérès, J. Zs. Mezei, K. Chakrabarti, O. Motapon, A. Bultel and **Ioan F. Schneider**

10:00-10:30

**PL-11**

HOLOGRAPHIC MAPPING OF ATOMIC ORBITALS

Sándor Borbély, Attila Tóth and **Ladislau Nagy**

**F206**

09:30-10:30

**SEENET-MTP Committee Meeting**

**Aula Magna Reception Hall**

10:30-11:30

**Coffee Break and API Poster Session****A01****API Session 3***Chairman: Felicia Iacomi*

11:30-12:00	<b>AI-I05</b>	MAGNETORESPONSIVE NANOSYSTEMS WITH CONTROLLED MORPHOLOGY AND SURFACE FUNCTIONALIZATION [ <i>invited</i> ] <b><u>Rodica Turcu</u></b> , Izabell Craciunescu, Alexandrina Nan, Anca Petran, Vlad Socoliuc, Oana Marinica and Ladislau Vekas
12:00-12:15	AI-O09	MAGNETICALLY INDUCED DICHROISM IN FERROFLUIDS WITH LONG RANGE INTERACTING BIDISPERSE SPHERICAL NANOPARTICLES <b><u>Vlad Socoliuc</u></b> and Lorin-Bogdan Popescu
12:15-12:30	AI-O10	GAINSN MELT FLOW STRUCTURE VARIATION WITH CRUCIBLE SIZE IN AN ISOTHERMAL ELECTROMAGNETIC STIRRING CONFIGURATION <b><u>Radu Andrei Negrila</u></b> , Alexandra Popescu, Bogdan Barvinschi, Marius Paulescu and Daniel Vizman
12:30-12:45	AI-O11	BIOPRINTED TISSUE CONSTRUCTS SIMULATED BY THE LATTICE BOLTZMANN METHOD <b><u>Artur Cristea</u></b> and Adrian Neagu
12:45-13:00	AI-O12	LANGMUIR PROBE MEASUREMENT OF A LASER PRODUCED MAGNESIUM PLASMA <b><u>Stefan-Andrei Irimiciuc</u></b> , Ilarion Mihaila and Silviu Gurlui

13:00-13:15	AI-O13	USING BIOINFORMATICS TO COMPARE THE ROF2 (FKBP65) PROTEIN FROM ARABIDOPSIS THALIANA TO ITS HUMAN HOMOLOG FKBP52 <b><u>Liliana Lighezan</u></b> , Adrian Neagu and Adriana Isvoran
13:15-13:30	AI-O14	SCANNING IN BIOMEDICAL IMAGING AND OPTICAL COHERENCE TOMOGRAPHY <b><u>Virgil-Florin Duma</u></b>

### F203

#### TCP Session 3

*Chairman: Ladislau Nagy*

11:00-11:30	<b>TC-I03</b>	QTAIM STUDIES OF $[\text{Li}(\text{DMSO})_n]^+$ AND $[\text{Al}(\text{DMSO})_n]^{3+}$ [ <i>invited</i> ] <b><u>Martin Breza</u></b>
11:30-12:00	<b>TC-I04</b>	SYMBOLIC AND NUMERICAL COMPUTING FOR BOSE-EINSTEIN CONDENSATES [ <i>invited</i> ] <b><u>Alexandru Nicolin</u></b> and Mihaela Carina Raportaru
12:00-12:15	TC-O13	IMPLEMENTATION OF THE FORCE TERM IN LATTICE-BOLTZMANN MODELS BASED ON HALF-SPACE QUADRATURES <b><u>Victor Eugen Ambrus</u></b> and Victor Sofonea
12:15-12:30	TC-O14	HARMONIC OSCILLATOR POTENTIAL WITH A QUARTIC ANHARMONICITY IN THE PROLATE $\gamma$ -RIGID COLLECTIVE GEOMETRICAL MODEL <b><u>Radu Budaca</u></b>
12:30-12:45	TC-O15	BF QUANTIZATION OF MCS-PROCA MODEL <b><u>Mihaela Tinca Udristioiu</u></b>

12:45-13:00	TC-O16	ANHARMONIC VIBRATIONS AROUND A TRIAXIAL NUCLEAR DEFORMATION “FROZEN” TO $\gamma=30^\circ$ <b><u>Petrica Buganu</u></b> and Radu Budaca
13:00-13:15	TC-O17	LATTICE BOLTZMANN APPROACH TO MULTIPHASE FLUIDS USING MASSIVELY PARALLEL SYSTEMS QUADRATURES <b><u>Tonino Biciusca</u></b> , Adrian Horga and Victor Sofonea

### F206

#### TCP Session 4 - SEENET-MTP Workshop

*Chairman: Ion Cotaescu*

11:00-11:30	<b>TC-I05</b>	COSMOLOGY OF NONLOCAL MODIFIED GRAVITY <i>[invited]</i> <b><u>Branko Dragovich</u></b>
11:30-12:00	<b>TC-I06</b>	INTEGRABLE EQUATIONS AND RECURSION OPERATORS RELATED TO THE AFFINE LIE ALGEBRAS $A_r^{(1)}$ <i>[invited]</i> <b><u>Vladimir Gerdjikov</u></b> , Dimitar Mladenov, Stanislav Varbev and Alexander Stefanov
12:00-12:15	TC-O18	KILLING-YANO TENSORS AND SUPERINTEGRABILITY ON SASAKI-EINSTEIN SPACES <b><u>Mihai Visinescu</u></b>
12:15-12:30	TC-O19	ENTANGLEMENT GENERATION IN TWO-MODE GAUSSIAN SYSTEMS IN A THERMAL ENVIRONMENT <b><u>Aurelian Isar</u></b>
12:30-12:45	TC-O20	TACHYONIC AND LOCALY EQUIVALENT CANONICAL LAGRANGIANS – THE POLYNOMIAL CASE Dragoljub Dimitrijevic, Goran Djordjevic and <b><u>Milan Milosevic</u></b>
12:45-13:00	TC-O21	PRECESSIONAL MOTION OF THE FOUR-DIMENSIONAL RIGID BODY



		Vladimir Dragovic and <b><u>Borislav Gajic</u></b>
13:00-13:15	TC-O22	COVARIANT LINEAR REALIZATIONS OF KAPPA-MINKOWSKI SPACE <b><u>Danijel Pikutic</u></b> and Stjepan Meljanac

F205		
EP Session 1 + EP Poster Session		
<i>Chairman: Mihai Lungu</i>		
10:00-10:30	<b>EP-I01</b>	SOME POINTS OF VIEW ABOUT ROLE OF “CONCEPTUAL CHANGE” IN EDUCATION [ <i>invited</i> ] <b><u>Cristian Hatu</u></b>
10:30-11:00	<b>EP-I02</b>	ASPECTS CONCERNING EDUCATION OF STUDENTS’ CREATIVITY WHILE STUDYING THE OPTICAL PHENOMENA [ <i>invited</i> ] <b><u>Gabriel Florian</u></b> and S. Trocaru
11:00-11:15	EP-O01	TRANSVERSAL AND SCIENCE SPECIFIC SKILL DEVELOPMENT THROUGH THE “LEARNING ENGLISH AND SCIENCE” SUMMER SCHOOL <b><u>Dana Craciun</u></b> and Madalin Bunoiu
11:15-11:30	EP-O02	INTERDISCIPLINARITY, JUST A BEAUTIFUL WORD?! <b><u>Mihaela Codruta Tudor</u></b>
11:30-11:45	EP-O03	NEW TRENDS IN OUTREACH ACTIVITIES IN IFIN-HH <b><u>Bogdan Popovici</u></b>

11:45-12:00	EP-O04	MOODLE VA PROVOACA! <b><u>Anghelina Ciotlos</u></b>
12:00-12:15	EP-O05	INTRODUCEREA BAZELOR FIZICE PENTRU UNELE NOTIUNI METEOROLOGICE LA ORA/CERCUL DE FIZICA <b><u>Zsuzsa Sárközi</u></b>
12:15-12:30	EP-O06	STUDIUL FIZICII ÎN CONTEXTUL STIINTELOR <b><u>Violeta Lacatusu</u></b>
10:00-12:30	EP Poster Session	

West University Main Entrance	
13:30-14:00	Assembly for Recas Departure

CMP Posters	
CM-P01	PHONON SPECTRA OF ELPASOLITS $Cs_2NaRf_6$ (R=Y,Yb): AB INITIO CALCULATIONS Vladimir Chernyshev, Vladislav Petrov, Anatoliy Nikiforov and Dmitriy Zakiryanov
CM-P02	THE EFFECT OF $Ge_1Sb_2Te_4$ FILM DOPED WITH NITROGEN Mariana Osiac, Vasile Tiron and Gabriela Eugenia Iacobescu
CM-P03	PRESSURE EFFECT ON LATTICE AND VIBRATIONAL SPECTRUM OF $Gd_2Ti_2O_7$ BASED ON AB INITIO SIMULATIONS Vladislav Petrov, Vladimir Chernyshev and Anatoliy Nikiforov

CM-P04	SYNTHESIS OF THIN FILMS BASED ON TiO <sub>2</sub> -COATED FTO/QUARTZ SUPPORTS BY DOCTOR BLADE METHOD Cornelia Bandas, Corina Orha, Daniel Ursu and Carmen Lazau
CM-P05	INFLUENCE OF YbF <sub>3</sub> CONCENTRATION ON THE DISLOCATION DENSITY ON (111) SURFACE OF YbF <sub>3</sub> DOPED BaF <sub>2</sub> CRYSTALS Florina Cirlan, Marius Stef, Gabriel Buse, Madalin Bunoiu and Irina Nicoara
CM-P06	INFLUENCE OF SOME IMPURITIES ON THE EMISSION PROPERTIES OF CaF <sub>2</sub> :Yb <sup>3+</sup> CRYSTALS Marius Stef, Irina Nicoara, Florina Cirlan, Irina Para, Matias Velazquez and Gabriel Buse
CM-P07	COMBINED METHODS FOR DEPOSITION OF ZINC OXIDE STRUCTURES Ion Olaru, Florin Brinza and Sorin Tascu
CM-P08	PHYSICO-CHEMICAL CHARACTERIZATION OF NaTaO <sub>3</sub> SYNTHESIZED BY ULTRASONIC METHOD WITH IMMERSED SONOTRODE P. Sfirloaga, I. Miron, I. Malaescu, C. N. Marin, M. Poienar, D. Malaescu and P. Vlazan
CM-P09	HYDROTHERMAL SYNTHESIS OF SODIUM TITANATE NANORODS Paulina Vlazan, Paula Sfirloaga and Iasmina Miron
CM-P10	ELECTRIC PROPERTIES OF SODIUM TANTALATE (NaTaO <sub>3</sub> ) OBTAINED BY HYDROTHERMAL METHOD Dan Malaescu, Ioan Grozescu, Paula Sfirloaga, Paulina Vlazan and Catalin Nicolaie Marin
CM-P11	STRUCTURAL AND MAGNETIC CHARACTERISATIONS OF MIXED VALENCE IRON (II/III) PHOSPHATE LIPSCOMBITE Fe <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> (OH) <sub>2</sub> M. Poienar, P. Sfirloaga, P. Vlazan, J. Rouquette, V. Ranieri, A. Guesdon, A. Maignan and C. Martin
CM-P12	COMPLEX IMPEDANCE OF MANGANESE FERRITE POWDERS OBTAINED BY DIFFERENT METHODS Antoanetta Lungu, Iosif Malaescu, Catalin Nicolae Marin, Paulina Vlazan and Paula Sfirloaga
CM-P13	PHYSICAL PROPERTIES OF SOME POLYMER THIN FILM SOLAR CELLS Laura Hrostea, Liviu Leontie, Georgiana Bulai, Silviu Gurlui and Mihaela Girtan

CM-P14	INFLUENCE OF IRON IONS ON MAGNETIC PROPERTIES OF P2O5-Li2O GLASSES Constantin Andronache and Dania Racolta
CM-P15	SYNTHESIS OF MICROMETRIC SINGLE CRYSTALLINE SOFT MAGNETIC MAGNETITE PARTICLES Mihaela Luminita Kiss, Marius Chirita, Corina Beljung and Ionut Alexandru Chirita Mihaila
CM-P16	STRUCTURAL AND MAGNETIC INVESTIGATIONS OF POLYDIMETYLSILOXANE ELASTOMERS WITH FERROFLUIDS Maria Balasoiu, Ioan Bica, Madalin Bunoiu, Vasily Lebedev, Lyudmila Makarova, Nikolai Perov and Yuriy Raikher
CM-P17	SYNTHESIS AND CHARACTERIZATION OF Eu3+ DOPED SrY2O4 PHOSPHOR Cristina Matei, Serban Georgescu, Catalina Vasilescu, George Stanciu, Ana-Maria Voiculescu and Angela Stefan
CM-P18	GROWTH OF Sr <sub>x</sub> Ba <sub>1-x</sub> Nb <sub>2</sub> O <sub>6</sub> THIN FILMS BY RF-PLD FOR OPTICAL AND ELECTRO-OPTICAL DEVICES George Stanciu, Alexandru Achim, Nicu Scarisoreanu, Maria Dinescu and Ecaterina Andronescu
CM-P19	TRANSPARENT 1.0-at.% Nd:YAG CERAMIC MEDIA Catalina Vasilescu, Traian Dascalu, George Stanciu, Nicolaie Pavel, Eugen Vasile and Roxana Trusca
CM-P20	OPTICAL ENERGY LEVELS SCHEME FOR Co <sup>2+</sup> DOPED IN KMgF <sub>3</sub> Ana-Marinela Barb, Adrian Sorin Gruia and Calin Avram
CM-P21	SEMIEMPIRICAL AND AB INITIO SIMULATION ENERGY LEVELS SCHEME OF DIVALENT COBALT DOPED BISMUT GERMANATE Emiliana-Laura Andreici, Petya Petkova and Nicolae Avram
CM-P22	MAGNETOCALORIC PROPERTIES OF Pr <sub>2-x</sub> Dy <sub>x</sub> Fe <sub>17</sub> AND Pr <sub>2</sub> Fe <sub>17-x</sub> Al <sub>x</sub> INTERMETALLIC COMPOUNDS Rim Guetari, Adrian Bezergeanu, Najeh Mliki, Lotfi Bessais and Corneliu-Bazil Cizmas
CM-P23	MID-GAP PHENOMENA IN CHALCOGENIDE GLASSES AND BARRIER-CLUSTER-HEATING MODEL I. Banik, M. Kubliha, J. Lukovicova, G. Pavlendova

### TCP POSTERS

TC-P01	FERMION PRODUCTION IN DIPOLAR ELECTRIC FIELD ON DE SITTER EXPANDING UNIVERSE Mihaela-Andreea Baloi and Cosmin Crucean
TC-P02	DIRAC FERMIONS ON AHARONOV-BOHM CYLINDERS D. M. Baltateanu and I. Cotaescu Jr.
TC-P03	APPROXIMATE SOLUTION OF SCHRODINGER EQUATION WITH PSEUDO-GAUSSIAN POTENTIAL VIEWED AS A PERTURBATION Theodor-Felix Iacob, Marina Lute and Felix Iacob
TC-P04	A NUMERICAL APPROACH FOR THE SOLUTION OF SCHRODINGER EQUATION WITH PSEUDO-GAUSSIAN POTENTIALS Theodor-Felix Iacob, Marina Lute and Felix Iacob
TC-P05	A STUDY OF THE SYMMETRIES AND THE INVARIANTS OF THE DISPERSIVE KLEIN-GORDON EQUATION IN COSMOLOGY Costin-Radu Boldea and Afrodita Boldea
TC-P06	COMPETITION BETWEEN ALPHA-DECAY AND SPONTANEOUS FISSION AT ISOTOPES OF SUPERHEAVY ELEMENTS Rf, Db, AND Sg Claudia-Ioana Anghel, I. Silisteanu
TC-P07	SOME STATISTICAL FEATURES OF PARTICLE DYNAMICS IN TOKAMAK PLASMA Marian Negrea, Iulian Petrisor and Dana Constantinescu
TC-P08	ON THE MOTION OF DUST PARTICLES IN TOKAMAK PLASMA EDGE Marian Negrea, Iulian Petrisor and Dana Constantinescu
TC-P09	ENTANGLEMENT OF FORMATION IN TWO-MODE GAUSSIAN SYSTEMS IN A THERMAL ENVIRONMENT Irina Dumitru and Aurelian Isar

TC-P10	HIGHWAY TRAFFIC MODELING WITH SPRING-BLOCK SYSTEMS Ferenc Járai-Szabó and Zoltan Neda
TC-P11	PROJECTILE COHERENCE EFFECTS IN FULLY DIFFERENTIAL IONIZATION CROSS SECTIONS Ferenc Járai-Szabó and Ladislau Nagy
TC-P12	NUMERICAL METHOD FOR THE INVESTIGATION OF H <sub>2</sub> <sup>+</sup> MOLECULE IN EXTERNAL XUV LASER FIELD Gellért-Zsolt Kiss, Sándor Borbély and Ladislau Nagy
TC-P13	RADIATION OF INERTIAL SCALAR CHARGES IN DE SITTER UNIVERSE Robert Blaga
TC-P14	HIGH-PERFORMANCE COMPUTING ALGORITHMS FOR THE NONLINEAR DYNAMICS OF BOSE-EINSTEIN CONDENSATES Mihaela Carina Raportaru
TC-P15	CAVITY-OUTPUT-FIELD SUPPRESSION VIA INTERFERENCE EFFECTS Viorel Ciornea and Mihai Macovei

#### API Posters

AI-P01	THRESHOLD SELECTION FOR CLASSIFICATION OF MR BRAIN IMAGES BY CLUSTERING METHOD Simona Moldovanu, Cristian Obreja and Luminita Moraru
AI-P02	LONG-TERM MONITORING OF THE ATMOSPHERE AND SOLAR RADIATION AT THE IAP GROUND-BASED STATION, CHISINAU (MOLDOVA)

	Alexandr Aculinin and Vladimir Smicov
AI-P03	STRUCTURAL INVESTIGATION AND ANTIMICROBIAL ACTIVITY OF V2O5 – P2O5 – K2O GLASS SYSTEM R. Stanescu, N. S. Vedeanu and D. Vodnar
AI-P04	CHIP-BASED MASS SPECTROMETRY FOR SCHINDLER DISEASE TYPE I: DETAILED ANALYSIS OF A COMPLEX GLYCOPEPTIDE FRACTION FROM PATIENT URINE Mirela Sarbu, Adrian Robu, Iosif Malaescu and Alina Zamfir
AI-P05	MODEL-FREE KINETIC ANALYSIS OF SR2FEMOO6 RE-CRYSTALLIZATION PROCESS USED FOR GROWING BY BRIDGMAN METHOD OF THE DOUBLE-PEROVSKITE MONOCRYSTALS Cristina Bartha, Carmen Plapcianu, Petru Palade, Daniel Vizman
AI-P06	CHECKING THE ADME-TOX PROFILE OF THE USUAL FOOD ADDITIVES Dana Craciun, Dorina Modra and Adriana Isvoran
AI-P07	NOWCASTING THE OUTPUT POWER OF A PV SYSTEM Oana Mares, Marius Paulescu and Daniel Vizman
AI-P08	OVERVIEW ABOUT SOLAR CELLS DEGRADATION IN SPACE Marius Paulescu, Radu Andrei Negrila and Daniel Vizman
AI-P09	A STATISTICAL FUZZY APPROACH FOR ESTIMATING SOLAR IRRADIATION Remus Boata
AI-P10	PIC METHOD IN NUMERICAL SIMULATION OF LASER-PLASMA INTERACTION Dragos Tatomirescu, Gabriel Pascu, Alexandra Popescu and Daniel Vizman
AI-P11	ASSESSMENT OF VESSEL DIAMETERS FOR MR BRAIN ANGIOGRAPHY PROCESSED IMAGES Luminita Moraru, Cristian Obreja and Simona Moldovanu
AI-P12	RADON AND RADIUM CONCENTRATION IN WATER FROM ARAD COUNTY AND THE ESTIMATED DOSE Moldovan Mircea, Burghеле Bety, Sferle Teofana and Cosma Constantin

AI-P13	DEGENERACY OF ENERGY LEVELS OF PSEUDO-GAUSSIAN OSCILLATORS Theodor-Felix Iacob, Marina Lute and Felix Iacob
AI-P14	EXPERIMENTAL INVESTIGATIONS ON RECONSTRUCTION STRUCTURE OF DENTAL MATERIALS Lucia Vrajitoriu and Irina Butuc
AI-P15	PKU DIAGNOSIS AND MONITORING BY GC/MS Niculina Sonia Suvar, Elena Horj, Andreea Maria Iordache, Romana Vulturar, Cornelia Mesaros and Monica Culea
AI-P16	A CRITICAL REVIEW OF THE SOLAR ENERGY DATABASE FOR THE BANAT PLAIN Gabriel Mihai Turi, Catalin Nicolae Marin and Marius Paulescu
AI-P17	THERMOGRAPHY TECHNIQUES CORRELATED WITH LIDAR DATA FOR PBL IDENTIFICATION AND HEIGHT VARIATION STUDY Bogdan Albina, Marius Mihai Cazacu, Adrian Timofte and Silviu Gurlui
AI-P18	A CASE STUDY OF METEOROLOGICAL PARAMETERS NEAR WATER ACCUMULATIONS WITH COMPLEMENTARY REGIONAL DATA Oana Rusu, Adrian Timofte, Marius Mihai Cazacu, Silviu Octavian Gurlui, Florin Brinza and Liviu Leontie
AI-P19	PBL REMOTE SENSING MEASUREMENTS IN COMPARISON WITH ALARO MODEL DURING LORELAY CAMPAIGN 2014 Adrian Timofte, Marius Mihai Cazacu, Bogdan Albina, Livio Belegante, Cristian Radu, Laura Hrostea, Madalina Iftime, Liviu Leontie and Silviu Gurlui
AI-P20	POLARIZING FIELD EFFECT ON THE EFFECTIVE REFLECTION COEFFICIENT OF FERROFLUIDS Laurentiu Iordaconiu, Paul C. Fannin, Iosif Malaescu and Catalin N. Marin
AI-P21	STATISTICAL STUDIES REGARDING FOLIN-CIOCALTEU INDEX DETERMINATION BY UV-VIS SPECTROPHOTOMETRY Oana-Roxana Bancuta, Iulian Bancuta, Andrei Chilian, Rodica-Mariana Ion, Radu Setnescu, Tanta Setnescu, Cristiana Radulescu, Claudia Stihi, Anca Gheboianu and Ion V. Popescu
AI-P22	INTRODUCING 2D NUMERIC ANALYSIS IN MODELING COMPLEX CARBOHYDRATES MASS SPECTRA



	Cristina Mosoarca, Iosif Malaescu, Željka Vukelic, Alina D. Zamfir and Aurel Ercuta
AI-P23	CHARACTERIZATION OF TiO <sub>2</sub> NANOPARTICLES, USED IN THE MANUFACTURE OF DSSC, BY NAA AND SEM TECHNIQUES Andrei Chilian, Oana-Roxana Bancuta, Iulian Bancuta, Rodica-Mariana Ion, Radu Setnescu, Virgil Marinescu, Tanta Setnescu, Inga Zinicovscaia, Otilia Culicov, Marina Frontasyeva, Claudia Stihi, Cristiana Radulescu, Anca Gheboianu and Ion V. Popescu.
AI-P24	SAMPLE THICKNESS EFFECT ON THE TRANSMITTED DOSE THROUGH SOME ABSORBENT MATERIALS Marius Spunei, Iosif Malaescu and Catalin Marin
AI-P25	STUDIES CONCERNING THE QUALITY OF NECTAR HONEY COLLECTED FROM SOUTH-MUNTENIA REGION OF ROMANIA Elena Daniela Chelarescu, Claudia Stihi, Cristiana Radulescu, Ioana Daniela Dulama, Octavian Dului and Ion V. Popescu
AI-P26	STUDIES CONCERNING THE HEAVY METALS CONTENT OF TOP SOILS FROM CROSS-ROADS Ioana Daniela Dulama, Claudia Stihi, Cristiana Radulescu, Ion V. Popescu, Ioan Alin Bucurica, Lucica Grigora Toma and Raluca Stirbescu
AI-P27	DRY EYE SYNDROME DURING COMPUTER USAGE Aurora Gajta, Daniela Turkoanje, Iosif Dan Malaescu, Catalin N. Marin and Marie Jeanne Koos
AI-P28	EVALUATION OF ELEMENTAL COMPOSITION OF PARTICULATE MATTER (PM <sub>2.5</sub> ) USING X-RAY FLUORESCENCE METHOD Claudia Stihi, Cristiana Radulescu, Stefania Iordache, Daniel Dunea, Ioana Daniela Dulama and Laurentiu Predescu
AI-P29	THE INFLUENCE OF HEAVY METALS COMPOSITION OF SOIL ON THE POLYMERIC INSULATORS MATERIALS OF POWER CABLES Ion V. Popescu, Cristiana Radulescu, Claudia Stihi, Gabriela Telipan, Ioana Daniela Dulama, Ioana Ionita and Ioana Raluca Bunghez
AI-P30	THE NANOPARTICLE EFFECT HYPOTHESIS IN FEMORAL HEAD ASEPTIC NECROSIS J.M. Patrascu, Madalin Bunoiu and Mihai Lungu
AI-P31	PROPERTIES OF TITANIUM DIOXIDE THIN FILMS DEPOSITED BY LASER ABLATION

	Virgil-Nicolae Cancea
AI-P32	PRESSURE AND pH INFLUENCE UPON HYDROTHERMALLY OBTAINED ZnIn <sub>2</sub> S <sub>4</sub> COMPOUND Radu Banica, Daniel Ursu, Andrei Racu, Terezia Nyari, Nicolae Vaszilcsin and Cristina Mosoarca
AI-P33	CLOUDS AND THE NEAR-EARTH ENVIRONMENT: POSSIBLE LINKS Simona Condurache-Bota and Mirela Voiculescu
AI-P34	RHEOLOGICAL CHARACTERIZATION OF THE OVINE RUMINAL FLUID Iuliana Cretescu, Constantin Mateescu, Oana Marinica, Monica Neagu, Adrian Neagu, Marius Stef and Oana Munteanu
AI-P35	OPTICAL AND SPECTRAL INVESTIGATIONS OF CoFe <sub>2</sub> O <sub>4</sub> AND CoFe <sub>1.8</sub> RE <sub>0.2</sub> O <sub>4</sub> (RE=Dy, Gd) PLASMA PLUME GENERATED BY LASER ABLATION Georgiana Bulai, Marius Mihai Cazacu, Silviu Gurlui and Cristian Focsa
AI-P36	CRANIOSPINAL IRRADIATION TECHNIQUES Ioana Scarlatescu, Vasile Virag and Calin Avram
AI-P37	ACCUMULATIVE PROCESS OF Cs ACTIVE IN HUMAN TEETH M. Ivanescu, Daniel Enache, Marius Belc and I. M. Oancea-Stanescu
AI-P38	PREEMPTIVE GRID INTEGRITY SUSCEPTIBILITY ANALYSIS USING GOOGLE MAPS PROBING IN SEISMIC AREAS Dragos Iancu and Septimiu Lica
AI-P39	AN INTERACTIVE NODE STATE DEPENDENT SHORTEST PATH FINDER IN SMART GRIDS Dragos Iancu, Septimiu Lica and Cristian Ile

EP Posters	
EP-P01	CREATIVITATEA ÎN LABORATOR FOLOSITA ÎN SCOPUL COMBATERII POLUARII ELECTROMAGNETICE. ORGON Lucia Vrajitoriu
EP-P02	MACROSCOPIC MODELS FOR DEMONSTRATING THE CAUSES OF FRICTION Ljubisa Nestic and Vera Prokic
EP-P03	INTERDISCIPLINARITATEA ÎN PREDAREA FIZICII Antoanetta Lungu, Simona Constandache, Aurelia Voichescu and Cecilia Strîmbeanu
EP-P04	ROLUL CALCULATORULUI ÎN PREDAREA SI EXAMINAREA CUNOSTIINTELOR DE FIZICA ÎN GIMNAZIU Ionela Florica Dobrescu, Petru Gabriel Avram and Ioana Lavinia Mandis
EP-P05	PASI SPRE UNITATEA STIINTEI: CUCERIREA SPATIULUI COSMIC G. Florian, A.D. Florian and N. Pufu
EP-P06	METODE EFICIENTE DE ÎNVATARE A FIZICII Gigi Glavan
EP-P07	FIZICA SI CALCULATORUL Gheorghe-Daniel Lascu and Gabriela-Elena Lascu
EP-P08	HARTA ZGOMOTELOR PENTRU MUNICIPIUL ORASTIE Margareta Giurgiu
EP-P09	PREDAREA INTERDISCIPLINARĂ, OBIECTIV MAJOR PENTRU ÎNVĂȚAREA DE CALITATE Maria Perț

*Please make sure you arrive in time to put your poster up before the sessions begin.*