

TIM 19 Physics Conference SESSION MATRIX

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)
- **A11** – Located on the 1st floor of the entry hallway.
- **F205** – Faculty of Physics 2nd Floor (**Registration room**)
- **F206** – Faculty of Physics 2nd Floor
- **F101B** – Faculty of Physics 1st Floor
- **F104** – Faculty of Physics 1st Floor
- **Riviera Restaurant**, Splaiul Spiru Haret 1 Timisoara, on the bank of the Bega River

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

Note that the Registration desk will be available throughout the conference duration.

Wednesday, 29th of May 2019

Registration Desks Opens

Faculty of Physics 2nd Floor F205

13:00

A11

F206

F104

F203

F101B

15:00

**Opening
Ceremony**

15:30

Plenary Lecture 1

16:00

Plenary Lecture 2

16:30 - 16:40

Coffee Break – F205

16:40

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18:00

TCP Session 1

18:00

19:00

Poster Session 1 (TCP+ API)

Faculty of Physics 2nd Floor

19:00

Evening Cocktail Reception

Faculty of Physics 1st Floor

Thursday, 30th of May 2019

	A11	F206	F104	F203	F101B
08:00	Registration-F205				
09:00	Plenary Lecture 3				
09:30	Plenary Lecture 4				
10:00	Plenary Lecture 5				
10:30-11:00	Coffee Break – F205				
11:00	Plenary Lecture 6				
11:30	Plenary Lecture 7				
12:00	Plenary Lecture 8				
12:30-14:00	<p style="text-align: center;">Lunch Break <i>Faculty of Physics 1st Floor</i></p>				
14:00 - 15:30		TCP Session 2	CMP Session 1	API Session 1	Educational Physics
15:30-16:00	Coffee Break – F205				

16:00 - 17:30		TCP Session 3	CMP Session 2	API Session 2	Educational Physics
17:30 - 19:00	<p align="center">Coffee Break Poster Session 2 (CMP+API) <i>Faculty of Physics 2nd Floor</i></p>				
19:30	<p align="center">Conference Banquet <i>Riviera Restaurant, Splaiul Spiru Haret 1 Timisoara, on the bank of the Bega River</i></p>				

Friday, 31th of May 2019	
	Aula Magna of the West University of Timisoara
10:00 - 13:00	<p>Ceremony to award the titles of <i>Doctor Honoris Causa</i> to Dr. Stefan Hell, Nobel prize laureate in chemistry and Dr. Gérard Mourou, Nobel prize laureate in physics</p>
	Participants Departure

Saturday, 1st of Jun 2019

F206

WORKSHOP: „VALORIFICAREA EXTENSIVA A EXPERIENTEI IN ACTIVITATI DE SPATIU SI SECURITATE”

08:00-09:00 Participants Arrival

09:00-12:00 Presentations

12:00-14:00 Lunch Break

14:00-16:00 Round table and discussions

Participants Departure

Wednesday, 29th of May 2019

A11

13:00-15:00

Registration Desks Opens (*Faculty of Physics 2nd Floor – F205*)

Plenary Session 1

Chairman: Daniel Vizman

15:00-15:30

OPENING CEREMONY

15:30-16:00

PL-01

THE ELI-NP HIGH POWER LASER SYSTEM

Ioan Dancus

16:00-16:30

PL-02

PRODUCTION OF BREIT-WHEELER ELECTRON/POSITRON PAIRS USING ULTRA HIGH INTENSITY LASERS

Emmanuel d'Humières, Xavier Ribeyre, Oliver Jansen, Léo Esnault, Jean-Luc Dubois, Sophie Jequier, Dimitri Khaghani, Livia Lancia, Jean-Raphael Marques, Toma Toncian, Patrizio Antici, Jean-Claude Kieffer, Yasuhiko Sentoku, Alex Arefiev and Vladimir Tikhonchuk

F205

16:30-16:45

Coffee Break

Wednesday, 29th of May 2019

F206

TCP Session 1

Chairman: Felix Iacob

16:45-17:15	TC-I01	THE IMPORTANCE OF THE SUPER-EXCITED RYDBERG STATES IN THE PHOTOFRAGMENTATION OF H ₂ <i>[invited]</i> <u>Zsolt Janos Mezei</u> , Ioan F. Schneider and Christian Jungen
17:15-17:30	TC-O01	PULMONARY X-RAY IMAGES. A FRACTAL ANALYSIS <u>Mihai-Virgil Nichita</u> , Maria-Alexandra Paun, Vladimir-Alexandru Paun and Viorel-Puiu Paun
17:30-17:45	TC-O02	TRIAXIALITY IN ODD-A NUCLEI <u>Robert Poenaru</u> , Apolodor Aristotel Raduta and Alexandru Horia Raduta
17:45-18:00	TC-O03	PREDICTIONS OF DECAY MODES AND HALFLIVES OF SUPERHEAVY ELEMENTS Z=119-122 <u>Anghel Claudia</u> , Silisteanu Ion and Mastaneh Zadehraf
18:00-18:15	TC-O04	SCATTERING OF SPIN HALF QUANTUM FIELDS BY A KISELEV BLACK HOLE <u>Ciprian Sporea</u>

Faculty of Physics, 2nd Floor

Coffee Break and Poster Session 1 (TCP+ API)

Faculty of Physics 2nd Floor

18:15-19:15

Evening Cocktail Reception

Faculty of Physics 1st Floor

19:15

Thursday, 30th of May 2019

A11

Plenary Session 2

Chairman: Nicolae Avram

09:00-09:30	PL-03	RECENT PROGRESS IN Mn ⁴⁺ -DOPED RED PHOSPHORS <u>Mikhail Brik</u> , Alok Srivastava and Michal Piasecki
09:30-10:00	PL-04	COARSE-GRAINED MODELING OF DNA-GENETIC-VECTOR COMPLEXES <u>Titus Beu</u> , Andrada-Elena Ailenei and Răzvan-Ioan Costinaș
10:00-10:30	PL-05	PYGMY DIPOLE RESONANCE: FROM SCHEMATIC MODELS TO MICROSCOPIC TRANSPORT APPROACHES <u>Virgil Baran</u>

F205

10:30-11:00	Coffee Break
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Thursday, 30th of May 2019

A11

Plenary Session 3

Chairman: Mikhail Brik

11:00-11:30	PL-06	ELECTRON-IMPACT MOLECULAR CATION EXCITATION AND FRAGMENTATION IN COLD IONIZED GASES Felix Iacob, Nicolina Pop, S. Ilie, A. Abdoulanziz, E. Djuissi, C. Argentin, Y. Moulane, S. Niyonzima, M.D. Epée Epée, O. Motapon, K. Chakrabarti, A. Bultel, D. Benredjem, J. Tennyson, J. Zs. Mezei, V. Laporta and <u>Ioan Schneider</u>
11:30-12:00	PL-07	PALATINI GRAVITY AND THE ISSUE OF FRAMES <u>Andrzej Borowiec</u>
12:00-12:30	PL-08	PLASMA SYNTHESIS OF INTERSTELLAR DUST ANALOGS Cristina Gerber, Alina Chiper, Ilarion Mihaila, <u>Valentin Pohoata</u> and Ionut Topala

Faculty of Physics 1st Floor

12:30-14:00

LUNCH

Thursday, 30th of May 2019

F203

API Session 1

Chairman: Paul Fanin

14:00-14:30	AI-I01	RECENT RESEARCHES IN ELECTROSTATIC SEPARATION TECHNOLOGIES FOR THE RECYCLING OF WASTE ELECTRIC AND ELECTRONIC EQUIPMENT [<i>invited</i>] <u>Adrian Samuila</u> , Lucian Dascalescu, Laur Calin, Mihai Bilici and Andrei Catinean
14:30-14:45	AI-O01	IF CHARGE PARTICLE TRANSPORT IS DESCRIBED WITH FRACTIONAL ORDER DIFFERENTIAL EQUATIONS, THEN OBJECTIVITY IS LOST Agneta Balint and <u>Stefan Balint</u>
14:45-15:00	AI-O02	STATISTICAL CHARACTERISTICS OF PARTICULATE MATTER (PM10) CONCENTRATION IN ROMANIAN SELECTED URBAN AREAS BASED ON CAMS ENSEMBLE MODEL REANALYSIS <u>Mihaela Tinca Udristioiu</u> , Liliana Velea, Roxana Bojariu and Silviu Constantin Sararu
15:00-15:15	AI-O03	EXCHANGE RATE ANALYSIS BY NONLINEAR TIME SERIES METHOD <u>Dragos-Alin Dragomir</u> , Maria-Alexandra Paun, Vladimir-Alexandru Paun and Viorel-Puiu Paun

F205

Coffee Break

15:30-16:00

Thursday, 30th of May 2019

F104

CMP Session 1

Chairman: Michal Piasecki

14:00-14:30	CM-I01	STRUCTURAL, MAGNETIC AND THERMODYNAMIC PROPERTIES OF HETEROMETALLIC LUDWIGITES: Cu ₂ GaBO ₅ AND Cu ₂ AlBO ₅ [<i>invited</i>] <u>Rushana Eremina</u> , Tatiana Gavrilova, Evgeniya Moshkina, Ildar Gilmutdinov, Airat Kiiamov, Vladislav Gurzhiy, Vadim Grinenko and Dmitro Inosov
14:30-15:00	CM-I02	PURE, Yb- AND Nd-DOPED LaxGdySc _{4-x-y} (BO ₃) ₄ CZOCHRALSKI-GROWN NONLINEAR OPTICAL AND LASER CRYSTALS [<i>invited</i>] <u>Lucian Gheorghe</u> , Madalin Greculeasa, Alin Broasca, Flavius Voicu, George Stanciu, Stefania Hau, Cristina Gheorghe, Gabriela Croitoru and Nicolaie Pavel
15:00-15:15	CM-O01	LASING AND COOLING EFFECTS IN A QUANTUM OSCILLATOR COUPLED WITH A THREE-LEVEL Λ – TYPE SYSTEM. <u>Alexandra Mirzac</u> and Mihai Macovei
15:15-15:30	CM-O02	HYSTERESIS-FREE PEROVSKITE SOLAR CELLS: A PERSPECTIVE FROM THE MEASUREMENT CONDITIONS <u>George Alexandru Nemnes</u> , Cristina Besleaga, Andrei Gabriel Tomulescu, Lucia Nicoleta Leonat, Viorica Stancu, Mihaela Florea, Lucian Pintilie, Andrei Manolescu and Ioana Pintilie

F205

Coffee Break

15:30-16:00

Thursday, 30th of May 2019

F206

TCP Session 2

Chairman: Eugen-Mihaita Cioioianu

14:00-14:30	TC-102	SASAKI-RICCI FLOW ON FIVE-DIMENSIONAL SASAKI-EINSTEIN SPACE $T(1,1)$ [invited] <u>Mihai Visinescu</u>
14:30-14:45	TC-005	DESCRIPTION OF THE PHASE SPACE IN QUINTOM MODELS WITH CUBIC SELF-INTERACTIONS <u>Dana Maria Ioan</u> , Florin Vlad Iancu, Mihai Marciu, Virgil Baran and Roxana Zus
14:45-15:00	TC-006	D=3 AND D=4 CROSS-COUPPLINGS BETWEEN A SINGLE TOPOLOGICAL BF MODEL AND VARIOUS FORM DEGREE GAUGE FIELDS <u>Solange-Odile Saliu</u> , Constantin Bizdadea and Eugen-Mihaita Cioioianu
15:00-15:15	TC-007	LATTICE BOLTZMANN APPROACH TO RAREFIED FLOWS OF GASES INTERACTING VIA AB INITIO POTENTIALS <u>Sergiu Busuioc</u> , Victor Eugen Ambrus and Felix Sharipov
15:15-15:30	TC-008	NOETHER SYMMETRIES OF TWO-FIELD COSMOLOGICAL MODELS <u>Elena Mirela Babalic</u> , Lilia Anguelova and Iuliu Calin Lazaroiu

F205

15:30-16:00

Coffee Break

Thursday, 30th of May 2019

F203

API Session 2

Chairman: Adrian Samuila

16:00-16:30	AI-I02	CETAL-PW LASER BEAM FAR-FIELD INTENSITY PROFILE IMAGE ANALYSIS [<i>invited</i>] Achim Alexandru , Mihai Serbanescu, Aurelian Marcu, Razvan Ungureanu, Gabriel Cojocaru, Constantin Diplasu, Georgiana Giubega and Marian Zamfirescu
16:30-16:45	AI-O04	EXISTENCE AND STATIC STABILITY OF A CAPILLARY FREE SURFACE APPEARING IN A DEWETTED BRIDGMANN PROCESS Agneta Balint and Stefan Balint
16:45-17:00	AI-O05	PROTON IRRADIATION EFFECTS ON THE PERFORMANCE OF SPACE SOLAR CELLS Andreea Sabadus , Florin Negoita, Cristian Manailescu, Daniel Vizman and Marius Paulescu
17:00-17:15	AI-O06	FRACTAL ANALYSIS STUDY OF THE AXONAL TRACTS Dragos Bordescu , Theodor Trausan, Radu Dima and Viorel-Puiu Paun

Faculty of Physics, 2nd Floor

Coffee Break and Poster Session 2 (CMP+ API)

Faculty of Physics 2nd Floor

17:30-19:00

Thursday, 30th of May 2019

F104

CMP Session 2

Chairman: Valentin Pohoata

16:00-16:30	CM-I03	WIGNER CRYSTAL IN ONE DIMENSION [<i>invited</i>] <u>Catalin Pascu Moca</u>
16:30-16:45	CM-O03	IMPACT OF STRUCTURE ON THE ELECTRONIC AND OPTICAL PROPERTIES OF METAL-CHALCOGENIDE/HALIDE CRYSTALS <u>Michal Piasecki</u> , Galyna Muronchuk, Oleg Khyzhun, Igor Barchiy, Iwan Kityk and Mikhail Brik
16:45-17:00	CM-O04	EXPERIMENTAL INVESTIGATION OF THE EFFECT OF GRAPHENE DERIVATIVES ON THE STRUCTURAL AND OPTICAL PROPERTIES OF ZNO-BASED NANOSTRUCTURES <u>Issam Boukhoubza</u> , Mohammed Khenfouch, Liviu Leontie, Corneliu Doroftei, Mohamed Achehboune, Aurelian Carlescu, Georgiana Bulai, Valentin Pohoata, Bakang Moses Mothudi, Izeddine Zorkani and Anouar Jorio
17:00-17:15	CM-O05	NUMERICAL MODELING OF TEMPERATURE GRADIENT AND CRUCIBLE ROTATION RATE IN A CZ CONFIGURATION FOR SOLAR SILICON GROWTH <u>Alexandra Popescu</u> , Dragos Tatomirescu, Martin Bellman and Daniel Vizman

Faculty of Physics, 2nd Floor

Coffee Break and Poster Session 2 (CMP+ API)

Faculty of Physics 2nd Floor

17:30-19:00

Thursday, 30th of May 2019

F206

TCP Session 3

Chairman: Mihai Visinescu

16:00-16:30	TC-I03	SPONTANEOUS SYMMETRY BREAKING IN 3-3-1 GAUGE MODELS WITHOUT EXOTIC ELECTRIC CHARGES [<i>invited</i>] <u>Adrian Palcu</u>
16:30-16:45	TC-O09	ASPECTS OF THE SPONTANEOUS SYMMETRY BREAKING IN A SU(2) \times U(1)-GAUGE MODEL INVOLVING SIX REAL SCALAR FIELDS Constantin Bizdadea, <u>Eugen-Mihaita Cioroianu</u> and Solange-Odile Saliu
16:45-17:00	TC-O10	EVOLUTIONARY ASPECTS OF THE DARK ENERGY EQUATION OF STATE IN A QUINTOM COSMOLOGY WITH CUBIC SELF-INTERACTIONS <u>Florin Vlad Iancu</u> , Dana Maria Ioan, Mihai Marciu, Virgil Baran and Roxana Zus
17:00-17:15	TC-O11	LOCALLY CONFORMAL SYMPLECTIC STRUCTURES: FROM STANDARD TO LINE BUNDLE APPROACH <u>Eugen-Mihaita Cioroianu</u>
17:15-17:30	TC-O12	IMPLICIT-EXPLICIT RUNGE-KUTTA SCHEMES FOR THE BOLTZMANN EQUATION USING THE SHAKHOV MODEL <u>Stefan T. Kis</u> and Victor E. Ambrus

Faculty of Physics, 2nd Floor

Coffee Break and Poster Session 2 (CMP+ API)

Faculty of Physics 2nd Floor

17:30-19:00

Thursday, 30th of May 2019

F101B

EP Session 1

Chairman: Zsuzsa Sárközi

14:00-14:15	EP-001	USING CONCEPTUAL MAPS FOR A BETTER UNDERSTANDING OF CIRCULAR MOTION PROCESS <u>Fabiola Sanda Chiriacescu</u> , Bogdan Chiriacescu, Cristina Miron and Valentin Barna
14:15-14:30	EP-002	ASSESSING THE COMPETENCES OF THE SECONDARY SCHOOL STUDENTS FOR INTERPRETATION OF MOVEMENT GRAPHICS THROUGH STANDARDIZED TESTS <u>Gabriela Deliu</u> and Sabina Ştefan
14:30-14:45	EP-003	ANALYSIS OF PHYSICAL PARAMETERS FROM THE EXCELVAN STATION FOR DETERMINING ATMOSPHERIC CONDITIONS WHICH INFLUENCES AIR QUALITY <u>Marilena Colt</u> , Sabina Stefan and Stefan Antohe
14:45-15:00	EP-004	ATMOSPHERE PHYSICS AND ARDUINO APPLICATIONS <u>Maria Peto</u>
15:00-15:15	EP-005	EDUCATIONAL SEISMOMETER – A DEVICE TO TEACH PHYSICS <u>Bogdan Zaharia</u> , Dragos Tataru and Ioana Ungureanu
15:00-15:30	EP-006	THE SEISMIC SIMULATOR AS A DIDACTIC TOOL FOR SEISMIC EDUCATION <u>Adina Vanciu-Rau</u> , Alexandru Tiganescu, Dragos Tataru and Dan Corneliu Rau

F205

15:30-16:00

Coffee Break

Thursday, 30th of May 2019

F101B

EP Session 2

Chairman: Maria Peto

16:00-16:15	EP-O07	MULTIMEDIA AND SPECIAL COMPUTER FACILITIES USED IN TEACHING DIFFERENTIAL GEOMETRY, GENERAL RELATIVITY AND COSMOLOGY <u>Dumitru Vulcanov</u>
16:15-16:30	EP-O08	WHITEBOARD ANIMATION – A TOOL FOR TEACHING THE SPECIAL THEORY OF RELATIVITY <u>Bogdan Chiriacescu</u> , Fabiola Sanda Chiriacescu, Cristina Miron and Valentin Barna
16:30-16:45	EP-O09	FLUID DYNAMICS KNOWLEDGE COMPARISON OF STUDENTS WITH DIFFERENT EDUCATIONAL BACKGROUND Csilla Fulop, <u>Zsuzsa Sárközi</u> and Alpár Vörös
16:45-17:00	EP-O10	OUTCOMES OF AN OPTIONAL ENVIRONMENTAL PHYSICS COURSE IN HIGH SCHOOL <u>Alpár István Vita Vörös</u>
EP Posters		
EP-P01	GAME-BASED STORYTELLING IN NON-FORMAL ROMANIAN SCIENCE EDUCATION Dana Craciun, Gabriela Grossesck and Octavian Madalin Bunoiu	
EP-P02	CASA INTELIGENTĂ CERCUL DE FIZICĂ - ARDUINO: FIZ-AR Adriana Hudecz	

19:30

Conference Banquet

Riviera Restaurant, Splaiul Spiru Haret 1 Timisoara, on the bank of the Bega River

Friday, 31th of May 2019

Aula Magna of the West University of Timisoara

10:00
-
13:00

**Ceremony to award the titles of *Doctor Honoris Causa* to
Dr. Stefan Hell, Nobel prize laureate in chemistry and
Dr. Gérard Mourou, Nobel prize laureate in physics**

Participants Departure

TCP Posters (Session 1)

TC-P01

GAP PREDICTION IN HYBRID GRAPHENE - HEXAGONAL BORON NITRIDE NANOFKAKES USING ARTIFICIAL NEURAL NETWORKS

George Alexandru Nemnes, Tudor Luca Mitran and Andrei Manolescu

TC-P02

ELECTRICAL AND THERMOELECTRICAL GRAPHENE BILAYERS WITH EXTRINSIC IMPURITIES UNDER APPLIED ELECTRIC FIELD

George Alexandru Nemnes, Tudor Luca Mitran, Andrei Manolescu and Daniela Dragoman

TC-P03

OPTICAL QUANTUM TRANSITIONS WITH THE PARTICIPATION OF TWO-DIMENSIONAL MAGNETOEXCITONS

Ion Zubac

TC-P04

MAGNETIC NANOPARTICLE DOSIMETRY IN HYPERTHERMIA THERAPY

Iordana Astefanoaei and Alexandru Stancu

TC-P05	REACTIVE COLLISIONS BETWEEN ELECTRONS AND BET+ Felix Iacob, Nicolina Pop, Zsolt Mezei, Sebastien Niyonzima, Vincenzo Laporta and Ioan Schneider
TC-P06	TRANSITION AMPLITUDE FOR PARTICLE PRODUCTION IN SPHERICAL CHARTS OF DE SITTER SPACE-TIME Mihaela-Andreea Baloi
TC-P07	FIRST ORDER QED EFFECTS IN A NEW EXPANDING SPACETIME Ion Cotăescu and Diana Popescu
TC-P08	MODELING MOLECULES INTERACTING WITH TiO ₂ NANOCCLUSERS FOR HYBRID ORGANIC-INORGANIC PHOTOVOLTAICS OR PHOTOCATALYTIC DEGRADATION OF POLLUTANTS Corneliu Ioan Oprea and Mihai Gîrțu
TC-P09	SIGNATURES OF CLASSICAL CHAOS IN QUANTUM SYSTEMS Sebastian Micluta-Campeanu, Mihaela Carina Raportaru, Virgil Baran, Roxana Zus and Alexandru Nicolin
TC-P10	EFFECTIVE EQUATION FOR HIGHLY OBLATE BOSE-EINSTEIN CONDENSATES Rares Iovanescu, Mihaela Carina Raportaru and Alexandru Nicolin
TC-P11	TARGET CURVATURE INFLUENCE ON PARTICLE BEAM CHARACTERISTICS RESULTING FROM LASER ION ACCELERATION WITH MICROSTRUCTURED ENHANCED TARGETS AT ULTRA-HIGH INTENSITY Dragos Tatomirescu, Alexandra Popescu and Daniel Vizman

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

API Posters (Session 1)

AI-P01	INVERSE SCATTERING PROBLEM FOR CONCEALED OBJECTS DETECTION Dorin Bibicu, Maria Stan Necula and Luminita Moraru
AI-P02	STUDY OF RHEOLOGY OF RUBBER BLENDS CONTAINING ZEOLITE FILLER WITH DIFFERENT BINDING AGENTS Ondrej Bošák, Jan Hronkovic, Jozef Prešo, Vladimir Labas, Stanislav Minarik, Pavel Košťál and Marian Kubliha
AI-P03	THE MAPPING OF TECHNOLOGICAL TEXTURE IN ELECTRICAL INSULATORS

	Tomáš Kozík, Stanislav Minarik, Michal Ševčík, Marian Kubliha, Peter Kuna, Peter Arras and Ondrej Bošák
AI-P04	RADIOACTIVITY MONITORING IN FOODSTUFF AND DRINKING WATER IN BIHOR COUNTY Radu Tomse, Daniela Rahota, Crina Marcu, Ana-Maria Miere and Loredana Marcu
AI-P05	BIOSORPTION OF HEAVY METALS FROM THE METALLURGICAL INDUSTRY WASTEWATER BY MACROALGAE Florina-Cristiana Caprita and Antoaneta Ene
AI-P06	PRELIMINARY STUDIES ON THE SYNTHESIS OF RED CABBAGE DYE FOR GREEN DYE-SENSITIZED SOLAR CELLS Daiana Albuлесcu, Sabina Nitu, Melinda Vajda, Daniel Ursu, Ana-Maria Dabici, Narcis Duteanu, Marinela Miclau and Cristian Casut
AI-P07	PRELIMINARY STUDIES ON THE HYDROTHERMAL SYNTHESIS OF BiFeO ₃ PIEZOCERAMICS FOR THE MEDICAL APPLICATIONS Cristian Casut, Raul Bucur, Daniel Ursu, Stefania Nyerges, Nicolae Miclau, P. Barvinschi, A. Zamfir and Marinela Miclau
AI-P08	PROPOSED INTERNATIONAL COLLABORATIONS IN ASTROPHYSICS Ovidiu Vaduvescu
AI-P09	ELECTROMAGNETIC WAVES FROM LASER GENERATION OF PLASMA Aurelian Marcu, Mihai Ciubotaru, Andreea Groza, Bogdan Mihalcea, Achim Alexandru, Elena Ionita, Mihai Serbanescu, Constantin Diplasu and Georgiana Giubega
AI-P10	Au-INCORPORATED TUNGSTEN TRIOXIDE OBTAINED BY PULSED LASER DEPOSITION Mariana Osiac and Mihaela Tinca Udristioiu
AI-P11	ED-XRF ANALYSIS OF TRACE ELEMENTS IN SOILS LOCATED IN THE VICINITY OF A FORMER CHEMICAL PLANT Sloata Florin and Ene Antoaneta
AI-P12	DEGRADATION OF RHODAMINE B OVER GLASS FOAM COATED WITH WO ₃ AND TiO ₂ UNDER SIMULATED SOLAR RADIATION Madalina-Gabriela Ivanovici, Paulina Vlazan, Stefan Danica Novaconi and Florina Stefania Rus
AI-P13	REMOVAL OF METHYLENE BLUE BY ACTIVATED GLASS FOAMS WITH TiO ₂ IN DARK AND SIMULATED SOLAR LIGHT

	Florina Stefania Rus, Stefan Danica Novaconi, Paulina Vlazan and Madalina-Gabriela Ivanovici
AI-P14	SPECTRAL DISTRIBUTION OF LASER ACCELERATED PROTONS BY MULTILAYER CR-39 NUCLEAR TRACK DETECTORS Andreea Groza, Elena Stancu, Bogdan Butoi, Mihai Serbanescu, Bogdan Mihalcea, Dragana Dreghici and Mihai Ganciu
AI-P15	MORPHOLOGICAL AND SPECTRAL ANALYSIS OF HYDROXYAPATITE-POLYDIMETHYLSILOXANE LAYERS Andreea Groza, Daniela Predoi, Simona Liliana Iconaru, Dragana Dreghici, Mihai Ganciu, Bogdan Mihalcea, Gabriel Predoi, Carmen Cimpanu, Ana Nae, Carmen Ciobanu and Stefania Raita
AI-P16	SYNTHESIS AND CHARACTERIZATION OF SIZE AND SHAPE CONTROLLED COFE ₂ O ₄ NANOPARTICLES WITH THE USAGE OF PVP Rares-Adrian Bortnic,  Szatmri, Szilrd Tams, Gabriela Souca, Roxana Dudric, Rares Stiuciuc, Alin Iulian Moldovan, Emil Burzo and Romulus Tetean
AI-P17	MAGNETITE NANOPARTICLES FOR MEDICAL APPLICATION Roxana Dudric, Gabriela Souca,  Szatmri, Szilrd Tams, Stefan Nitica, Cristian Iacovita, Alin Iulian Moldovan, Rares Stiuciuc, Romulus Tetean and Emil Burzo
AI-P18	STUDY ON THE DYNAMICS OF THE WOOD BURNING PROCESS IN OPEN SYSTEMS BY REPRODUCIBLE COMBUSTION COMPOUNDS Mihai Lungu, Nicolae Strambeanu, Antoanetta Lungu and Crinu Ciuculescu
AI-P19	ATMOSPHERIC MEASUREMENTS IN THE CONTEXT OF PROTECTION AND CONSERVATION OF CULTURAL HERITAGE Daniel-Eduard Constantin, Rosu Adrian and Mihaela Timofti
AI-P20	EFFECTS OF MAGNETIC FIELDS ON THE LIGHT TRANSMITTANCE THROUGH MAGNETORHEOLOGICAL SUSPENSIONS Eugen Anitas, Ioan Bica, Madalin Bunoiu, Iosif Malaescu, Catalin Nicolae Marin, Aurel Ercuta, Maria BalasoIU, Mihai Lungu and Gabriel Pascu
AI-P21	STATISTICAL ANALYSIS OF AUTHENTICATION LOGS OF A VOICE-BASED BIOMETRICS SYSTEM Mihaela Carina Raportaru and Alexandru Nicolin
AI-P22	THE ELECTRICAL CONDUCTIVITY OF GINIITE FE ₅ (PO ₄) ₄ (OH) ₃ · 2H ₂ O MATERIALS

	Silviu Brindusoiu, Maria Poienar, Paula Sfirloaga, Paulina Vlazan, Cristina Mosoarca, Paul C. Fannin, Iosif Malaescu and Catalin N. Marin
AI-P23	SANS Investigation of Magnetic Elastomers Obtained by Thermal Decomposition of Iron Carbonyl in Silicone Rubber Maria Balasoiu, Octavian Madalin Bunoiu, Laszlo Almasy, Gabriel Pascu and Ioan Bica
AI-P24	AZIMUTHAL DISTRIBUTION OF NO ₂ USING MAX-DOAS OBSERVATIONS Daniel-Eduard Constantin, Adrian Rosu, Bogdan Rosu, Maxim Arseni, Corina Bocăneală, Mirela Voiculescu, Lucian Georgescu and Gabriel Murariu
AI-P25	THE STABILITY OF SILICONE BASED BOLUS BEFORE AND AFTER AN RADIOTHERAPY TREATMENT Bogdan Ile, Marius Spunei, Iosif Malaescu and Catalin N. Marin
AI-P26	CONTRIBUTION OF TISSUE DOPPLER ECHOCARDIOGRAPHY FOR THE ASSESSMENT OF DIASTOLIC DYSFUNCTION IN HYPOTHYROID PATIENTS Cristina Tudoran, Ahmed Abu-Awwad and Mariana Tudoran
AI-P27	SIGNIFICANCE OF DOPPLER ECHOCARDIOGRAPHY FOR THE EVALUATION OF PULMONARY HYPERTENSION IN PATIENTS WITH HYPERTHYROIDISM Mariana Tudoran, Ahmed Abu-Awwad and Cristina Tudoran

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

CMP Posters (Session 2)	
CM-P01	SURFACE MODIFICATION OF SINGLECRYSTALLINE SUPERPARAMAGNETIC IRON OXIDE (Fe ₃ O ₄) MICROPARTICLES WITH VARIOUS FUNCTIONAL ORGANO-SILICON DERIVATIVES Horatiu Moldovan, Liviu Mocanu, Francisc Peter and Marius Chirita
CM-P02	PRELIMINARY ELECTROCHEMICAL AND MICROSCOPY STUDIES PERFORMED ON SCREEN-PRINTED ELECTRODES MODIFIED WITH G-OG BASED AEROGELS Petrica Linul, Daniel Ursu, Radu Banica, Cristina Mosoarca, Mihai-Cosmin Pascariu, Antonio Radoi, Oana Tutunaru and Bogdan-Ovidiu Taranu

CM-P03	CZOCHEVSKY GROWTH AND OPTICAL PROPERTIES OF NONLINEAR LAXYSC4-X-Y(BO3)4 – LYSB SINGLE CRYSTAL Alin Broasca, Lucian Gheorghe, Madalin Greculeasa, Flavius Voicu and George Stanciu
CM-P04	(K,Na)NbO3 BASED ENVIRONMENTAL FRIENDLY PIEZOCERAMICS Raul Alin Bucur, Iuliana Farkas, Alexandra Ioana Bucur, Corina Ileana Orha, Carmen Lazau and Melinda Vajda
CM-P05	SYNTHESIS AND CHARACTERIZATION OF MESOPOROUS TiO2 Carmen Lazau, Corina Ileana Orha, Cornelia Elena Bandas, Miorcea Daniel Nicolaescu, Melinda Vajda and Mina Ionela Popescu
CM-P06	ND3+ DOPED LAXGDYSC4-X-Y(BO3)4 AS BIFUNCTIONAL LASER AND NONLINEAR CRYSTAL Flavius Marian Voicu, Lucian Gheorghe, Madalin Greculeasa, Alin Broasca, Cristina Gheorghe, Stefania Hau and Gabriela Croitoru
CM-P07	ONE STEP HYDROTHERMAL SYNTHESIS OF CuGaO2/rGO NANOSTRUCTURES Daniel Ursu, Marinela Miclau, Petrica Linul and Radu Banica
CM-P08	FABRICATION AND LASER PERFORMANCE OF HIGHLY TRANSPARENT Nd:YAG CERAMICS George Stanciu, Lucian Gheorghe, Flavius Voicu, Catalina-Alice Brandus, Cristina Tihon, Gabriela Croitoru and Nicolai Pavel
CM-P09	LUMINESCENCE PROPERTIES OF Pr3+ DOPED Ca3(Li,Nb,Ga)5O12 SINGLE CRYSTAL Stefania Hau, Cristina Gheorghe, Lucian Gheorghe, Flavius Voicu, Madalin Greculeasa, George Stanciu and Monica Enculescu
CM-P10	SPECTROSCOPIC CHARACTERIZATION OF LaGaO3 DOPED WITH Er3+ SYNTHESIZED BY SOLID STATE REACTION Cristina Tihon, George Stanciu, George Ruiu and Ana-Maria Voiculescu
CM-P11	CZOCHEVSKI GROWTH AND CHARACTERIZATION OF Yb-DOPED LYSB SINGLE CRYSTALS Madalin Greculeasa, Lucian Gheorghe, Alin Broasca, Flavius Voicu, Cristina Gheorghe, Stefania Hau and George Stanciu
CM-P12	COOPERATIVE ENERGY TRANSFER IN Ca3(Nb,Ga)5O12 CERAMICS DOPED WITH YTTERBIUM AND TERBIUM Cristina Gheorghe, Stefania Hau, Lucian Gheorghe and George Stanciu
CM-P13	GRAPHENE BANDGAP INDUCED BY FERROELECTRIC PCA21 HFO2 SUBSTRATE: A FIRST-PRINCIPLES STUDY

	George Alexandru Nemnes, Daniela Dragoman and Mircea Dragoman
CM-P14	RECONFIGURABLE QUANTUM LOGIC GATES USING RASHBA SPIN-ORBIT INTERACTION George Alexandru Nemnes and Daniela Dragoman
CM-P15	ZNO NANOSTRUCTURES /REDUCED GRAPHENE OXIDE COMPOSITES: SYNTHESIS AND CHARACTERIZATION Issam Boukhoubza, Mohammed Khenfouch, Liviu Leontie, Corneliu Doroftei, Mohamed Achehboune, Aurelian Carlescu, Georgiana Bulai, Valentin Pohoata, Bakang Moses Mothudi, Izeddine Zorkani and Anouar Jorio
CM-P16	APPLICATION OF ATSAS AND FITTER PROGRAMS FOR SANS EXAMINATION OF FERROFLUIDS Maria Balasoiu, Iosif Malaescu, Octavian Madalin Bunoiu, Alexandra-Maria Balasoiu-Gaina and Alexander Kuklin
CM-P17	SPECTROSCOPIC PROPERTIES OF GAMMA IRRADIATED CEF3-DOPED BAF2 CRYSTALS Marius Stef, Irina Nicoara, Gabriel Buse and Daniel Vizman
CM-P18	RAMAN STUDY of $x(\text{Fe}_2\text{O}_3 \cdot \text{V}_2\text{O}_5) \cdot (100-x)[\text{P}_2\text{O}_5 \cdot \text{Li}_2\text{O}]$ and $x\text{Fe}_2\text{O}_3 \cdot (100-x)[\text{P}_2\text{O}_5 \cdot \text{Li}_2\text{O}]$ GLASS SYSTEMS Constantin Andronache, Maria Balasoiu, Oleg Orelovich, Andrey Rogachev and Dania Racolta
CM-P19	STUDY OF THE MAGNETIC AND ELASTIC PROPERTIES OF SMART TISSUES IMPREGNATED WITH MAGNETO-RHEOLOGICAL SUSPENSION BY ATOMIC FORCE MICROSCOPY Ion Tirca, Gabriela Iacobescu and Ioan Bica
CM-P20	Ag DOPED MANGANITE MATERIALS: MORPHO-STRUCTURAL PROPERTIES AND ELECTRICAL PERFORMANCE Paula Sfirloaga, Iosif Malaescu, Catalin Nicolae Marin, Maria Poienar, Daniel Ursu, Cristina Mosoarca and Paulina Vlazan
CM-P21	EFFECT OF Fe-DOPING ON THE STRUCTURAL, MORPHOLOGICAL AND ELECTRICAL PROPERTIES OF LaMnO_3 Paula Sfirloaga, Iosif Malaescu, Catalin Nicolae Marin, Paul Barvinschi, Maria Poienar and Paulina Vlazan
CM-P22	THE OSCILLATIONS IN ESR SPECTRA OF $\text{Mn}_{0.11}\text{Hg}_{0.89}\text{Te}$ Ilshat Fazlizhanov, Shestakov, Rushana Eremina, Yatsyk and Ibragimova
CM-P23	RARE EARTH PYROCHLORES CRYSTALS $\text{Re}_2\text{Ge}_2\text{O}_7$ (Re=Lu, Yb): STRUCTURE, PHONON SPECTRA AND ELASTIC PROPERTIES Vladimir Chernyshev and Nicolae Avram
CM-P24	LATTICE DYNAMICS OF FeBO_3 AND GaBO_3 CRYSTALS: AB INITIO CALCULATION

	Vladimir Chernyshev and Calin Avram
CM-P25	LIGAND FIELD, SPIN-HAMILTONIAN PARAMETERS AND ENERGY LEVELS OF CR ₂ O ₃ CRYSTAL: AB INITIO ROUTE Emiliana-Laura Eftimie, Mikhail Brik, Calin Avram and Nicolae Avram
CM-P26	ENERGY LEVELS OF THE FREE 3d _n (n=2,8) IONS: AB INITIO CALCULATION Emiliana-Laura Eftimie and Nicolae Avram
CM-P27	OPTIMIZATION OF HIGH ENERGY RADIATION PRODUCED IN ULTRA HIGH INTENSITY LASER-PLASMA INTERACTION Iuliana Vladisavlevici, Emmanuel d'Humieres and Daniel Vizman
CM-P28	MACROSCOPIC AND MICROSCOPIC ELECTRICAL PROPERTIES OF A FERROFLUID IN LOW FREQUENCY FIELD Paul C. Fannin, Catalin N. Marin, Iosif Malaescu and Georgeta Matu
CM-P29	THE INFLUENCE OF MARANGONI CONVECTION ON THE TEMPERATURE FLUCTUATIONS IN A CZOCHRALSKI SOLAR SILICON PROCESS Andreea Cojocar, Oana Mares and Alexandra Popescu
CM-P30	INVESTIGATION OF OPTICAL AND MAGNETICAL PROPERTIES OF YFeO ₃ AND YFeO ₃ :Er Andrei Racu and Vlad Socoliuc
CM-P31	COARSE-GRAINED SIMULATIONS OF SOLVATED POLYETHYLENIMINE Andrada Ailenei, Răzvan Costinaş and Titus Beu
CM-P32	COHERENT ROTATIONS IN UNIAXIAL MAGNETIC DOMAINS: BEYOND THE STONER-WOHLFARTH APPROXIMATION Doru Marcel Baltateanu