

UNIVERSITY OF ELBASAN "ALEKSANDËR XHUVANI", ALBANIA

1-st International Scientific Conference in Mathematics and Physics, and their Applications (1-st ISCMPA)

03 - 04 November, 2022

FACULTY OF NATURAL SCIENCES

Mathematics Department & Physics Department

Conference link:

 $https://www.uniel.edu.al/images/studio_ne_ue/Fakulteti_i_shkencave_te_natyres/njofti\\me/Call_for_papers_1-st_ICMPA_April_222.pdf$

Conference website: www.ISCMPA.com





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PHYSICS

1-st ISCMPA

Mathematics Department & Physics Department

Istanbul Commerce University, Turkey
Sofia University "St. Kliment Ohridski", Bulgaria
New Jersey Institute of Technology, College of Science & Liberal Arts
University of Giessen, Germany
Aligarh Muslim University, Uttar Pradesh, India
Abdul Wali Khan University Mardan, Pakistan
TU Bergakademie Freiberg
South East European University, Tetovo, Macedonia
Pristina State University
The State University of Tirana, Albania
The Agricultural University of Tirana, Albania
University of Durrës "Aleksandër Moisiu", Albania

03-04 November, 2022

University of Vlora "Ismail Qemali", Albania Institute of GeoSciences































1-st ISCMPA will provide an interactive forum for presentations and discussions on Mathematics and Physics and their applications in different fields of life. We welcome participants from all over the world who are interested in developing professional research, exploring and sharing their achievements in these fields.

The conference should serve as an ideal forum for establishing national and international relationships between researchers.

This brings together innovative academics and industrial experts in these fields (related fields) in a common forum.

The primary goal of the conference is to promote research and developmental activities in Mathematics and Physics. Another goal is to promote scientific information interchange between researchers, developers, engineers, students and practitioners.

Department of Mathematics is known for earlier conferences held at the University of Elbasan mentioning:

- 1-st International Conference in Algebra and Functional Analysis, held on June 28, 2007 at University of Elbasan.
- 2-nd International Conference in Algebra and Functional Analysis, held on 28-29 June, 2008 at University of Elbasan.
- 3-rd International Conference in Algebra and Functional Analysis, held on 15-16 May, 2009. at University of Elbasan.
- 4-th International Conference in Algebra and Functional Analysis, UE, held on 14-15 May 2010 at University of Elbasan.
- 1-st IWBCMS 2013, 1st International Western Balkans Conference of Mathematical Sciences, held on May 30 June 1, 2013 at University of Elbasan.

Scientific and Editorial Committee

Assoc. Prof. Dr. Bederiana Shyti, University of Elbasan "Aleksandër Xhuvani", Albania

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Assoc. Prof. Dr. Sokol Kaliaj, Univeristy of Elbasan "Aleksandër Xhuvani", Albania

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Dr. Dhurata Valera, University of Elbasan "Aleksandër Xhuvani", Albania

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Dr. Daniela Halili, University of Elbasan "Aleksandër Xhuvani", Albania

Dr. Genti Progri, University of Elbasan "Aleksandër Xhuvani", Albania

Dr. Idajet Selmani, University of Elbasan "Aleksandër Xhuvani", Albania

CONFERENCE PROGRAM

Day I –November 03, 2022

(Local time in Albania GMT+1)

08:00-09:00	Registration of	Main Hall – Main Building
	participants	University of Elbasan "Aleksandër Xhuvani", Albania

PLENARY SESSION

Room Nr. 107 (Amphitheatre), Main Building

University of Elbasan "Aleksandër Xhuvani", Albania 09:00 – 10:30

09:00	Welcome Speech	Prof. Dr. Sotir MALI
	1	Dean of the Faculty of Natural Sciences
	Greetings	Prof. Dr. Skender TOPI
	_	Rector of University of Elbasan "Aleksandër Xhuvani",
		Albania
		Prof. Dr. Evis KUSHI
		Minister of Education and Sports
		Assoc. Prof. Dr. Peçi NAQELLARI
		Vise-Rector of University of Elbasan "Aleksandër
		Xhuvani", Albania
		Prof. Dr. Agron TATO
		Polytechnic University of Tirana, Albania
		Prof. Dr. Llukan PUKA
		The State University of Tirana, Albania
		Prof. Dr. Artur BAXHAKU
		Head of Mathematics Department, Faculty of Natural
		Sciences, University of Tirana, Tirana, Albania
		Prof. Dr. Naim BRAHA
		University of Prishtina, Kosovo
10:30 - 11:00	Coffee break	

PLENARY SESSION

Invited Lecturer

Conference Room: The University Library, Room 003 11:30 – 13:15

Time	Moderators	Assoc. Prof. Dr. Bederiana SHYTI Head of Mathematics Department, Faculty of Natural Sciences Prof. Dr. Artur BAXHAKU Dr. Blerina PAPAJANI Head of Physics Department, Faculty of Natural Sciences
11:30 – 13:00	Key-note speech	Prof. Dr. Naim BRAHA Department of Mathematics and Computer Sciences, University of Prishtina, Kosovo
		Prof. DSc. Asen PASHOV
		Vise-Dean, Faculty of Physics, Sofia University St. Kliment Ohridski, Sofia, Bulgaria
		Prof. Eberhard MALKOWSKY Department of Mathematics, State University of Novi Pazar, Serbia
		Prof. Dr. Harun KARSLI
		Department of Mathematics, Faculty of Sciences and Arts, Bolu Abant Izzet Baysal University Bolu/ Turkey
		Assoc. Prof. Dr. Senol KAYA Bolu Abant Izzet Baysal University Vocational School of Health Services,14280 Bolu, Turkey Center for Nuclear Radiation Research and Applications,BAİBÜ, 14280 Bolu, Turkey
13:00 – 13:15	Concluding remarks of the PLENARY SESSION	Assoc. Prof. Dr. Bederiana SHYTI Prof. Dr. Artur BAXHAKU Dr. Blerina PAPAJANI

13:15 – 15:00 Lunch time

PARALLEL SESSIONS

Mathematics and Physics, and their Applications 15:00 – 17:45

14:45 – 15:00	Registration of	UNIEL Library
	participants	

SESSION I

Mathematics and Applications

Conference Room: The University Library, Room 003 15:00 – 17:45

Moderators		Assoc. Prof. Dr. Bederiana SHYTI Prof.Dr. Naim BRAHA Dr. Dhurata VALERA Dr. Candidate Zamir SELKO
Time	Speakers	Presentation Title
15:00 – 15:15	Sanjeev Kumar Amendra Singh	ANALYSIS OF NEWTONIAN AND NON- NEWTONIAN BLOOD FLOW THROUGH MULTIPLE STENOSES IN NARROW ARTERY
15:15 – 15:30	Eberhard Malkowsky	COMPACT OPERATORS ON THE GENERALISED HAHN SPACE
15:30 – 15:45	Naim Braha	SOME WEIGHTED STATISTICAL CONVERGENCE AND ASSOCIATED KOROVKIN AND VORONOVSKAYA TYPE THEOREMS
15:45 – 16:00	Ekrem Aljimi	SOME NEW RESULT AND APPLICATION OF WEIGHTED STATISTICAL NORLUND-CESARO A-SUMMABILITY
16:00 – 16:15	Eriola Sila	GENERALIZED b -CAT(0) SPACES AND A FIXED POINT RESULT ON THEM
16:15 – 16:30	Xhevat Krasniqi	THE USE OF THE EVEN-TYPE DELAYED MEAN IN APPROXIMATION OF FUNCTIONS FROM THE GENERALIZED ZYGMUND CLASS

16:30 – 16:45	Tedis Ramaj Eriola Sila	SOME DIFFICULTIES AND ERRORS IN SOLVING TRIGONOMETRIC EQUATIONS AND TRIGONOMETRIC IDENTITIES
16:45 – 17:00	Zamir Selko Eriola Sila	ON COMMON FIXED POINT RESULTS FOR \mathcal{F} -SUZUKI CONTRACTIONS IN EXTENDED CONE B-METRIC SPACES
17: 00– 17:15	Djana Starja	OPEN – ENDED EQUATIONS IN MATHEMATICS AND THEIR ROLE IN THE DEVELOPMENT OF CRITICAL THINKING AND HIGH LEVEL SCILLS
17:15 – 17:30	Diana Dervina	BANAH THEOREM FOR FIXED POINTS, MARKOV-KAKUTAN THEOREM, SHAUDER- TIHONOV THEOREM
17:30 – 17:45	Concluding remarks of the SESSION	Moderators

SESSION II

Physics and Applications

Conference Room: The University Library, Room "Martin Camaj" 15:00 – 17:15

Moderators		Dr. Blerina PAPAJANI Dr. Genti PROGRI Ph.D. Albana HASIMI Dr. Idajet SELMANI
Time	Speakers	Presentation Title
15:00 – 15:15	Senol Kaya	INFLUENCE OF THE IONIZING IRRADIATION ON THE VARIOUS GATE OXIDE DIELECTRICS: A MONTE CARLO SIMULATION FOR ELECTRON SOURCES
15:15 – 15:30	Alketa Sinanaj Asen Pashov	FITTING POTENTIAL ENERGY CURVES (PEC) FOR DIATOMIC MOLECULES
15:30 – 15:45	Entelë Gavoçi Blerina Papajani	ENVIRONMENTAL RADIATION MONITORING STATION IN ELBASAN REGION
15:45 – 16:00	Idajet Selmani Blerina Papajani Eno Bakiri Islam Selmani	THE DOSIMETRY BY IONIZATION CHAMBER AND THE INFLUENCE OF PRESSURE AND TEMPERATURE
16:00 – 16:15	Elvin Çomo Blerina Papajani Albana Hasimi Azem Bardhi	CORRELATION OF AVERAGE MONTHLY TEMPERATURES FOR KORÇA AND POGRADEC STATIONS
16:15 – 16:30	Daniela Halili Urim Buzra Driada Mitrushi	ESTIMATION OF COMPENSATION OF SOLAR ENERGY WITH ELECTRICAL ENERGY FOR HOT WATER PRODUCTION IN THE EAST PART OF ALBANIA
16:30 – 16:45	Urim Buzra Daniela Halili Driada Mitrushi	OPTIMAL DESIGN OF HYBRID PV-WIND- BATTERY SYSTEMS FOR SUPPLY OF MICROGRIDS
16:45 – 17:00	Adisa Daberdini Fatmir Basholli Novrus Metaj	DESIGNING THE DEPTH OF THE ADRIATIC AND IONIAN SEAS FOR THE CALCULATION OF WATER WAVE DATA GENERATED BY SEISMIC WAVES.
17:00 – 17:15	Concluding remarks of the SESSION	Moderators

SESSION III

Mathematics and Applications

Conference Room: The University Library, Room 001 15:00 – 17:30

Moderators		Assoc. Prof. Dr. Sokol KALIAJ Dr. Elvin RADA Dr. Mimoza SHKËMBI Dr. Stela ÇENO
Time	Speakers	Presentation Title
15:00 – 15:15	Harun Karsli	SOME PROPERTIES OF THE BERNSTEIN-BEZIER OPERATORS CONSTRUCTED BY WAVELETS
15:15 – 15:30	Sokol Kaliaj Elvin Rada	THE AVERAGE RANGE OF VECTOR MEASURES TAKING VALUES IN TOPOLOGICAL VECTOR SPACES
15:30 – 15:45	Cevdet Tunç	THE USE OF INNOVATIVE STEAM MATERIALS IN MATHEMATICS EDUCATION AND ITS EFFECTS ON OBJECTIVES
15:45 – 16:00	Ilmi Hoxha Naim Braha	ALBEGRAIC EXTENTION OF OPERATOR
16:00 – 16:15	Mimoza Shkëmbi Stela Çeno	THE ORDER-TYPE INTEGRALS AND SERIES
16:15 – 16:30	Elvin Rada Sokol Kaliaj	THE FULL CHARACTERIZATIONS OF THE FINEST LOCALLY CONVEX TOPOLOGY
16:30 – 16:45	Stela Çeno Mimoza Shkëmbi	METRIZABILITY OF CONE ASYMMETRIC QUASINORMED FUNCTION
16:45 – 17:00	Brunilda Shpata	SOME EXAMPLES 2-NORMED SPACES
17:00 – 17:15	Mimoza Shkëmbi Dhurata Valera	APPLICATIONS OF STRONG ORDER TYPE INTEGRALS TO WALSH SERIES
17:15 – 17:30	Concluding remarks of the SESSION	Moderators

Day II –November 04, 2022

(Local time in Albania GMT+1)

PARALLEL SESSIONS

Mathematics and Physics, and their Applications 09:00 – 13:30

09:00 - 09:30	Registration of	UNIEL Library
	participants	

SESSION I

Mathematics and Applications

Conference Room: The University Library, Room 003 09:30 – 13:00

Mo	oderators	Assoc. Prof. Dr. Bederiana SHYTI Prof. Dr. Agron TATO Dr. Ervin RADA Dr. Dhurata VALERA
Time	Speakers	Presentation Title
09:30 – 09:45	Kannadasan Karuppaiah Halim Zeghdoudi Dhurata Valera Vinoth Raman	STOCHASTIC MODEL TO ASSESS THE ENERGY CONSUMPTION OF A JAW CRUSHER MACHINE
09:45 – 10:00	Bederiana Shyti Silvana Paralloj Lirim Bekteshi Nikolin Gega	EVALUATION OF INDEX WQI FOR SHKUMBINI RIVER USING MLR METHOD

10:00 – 10:15	Elvin Rada Agron Tato	APPLICATIONS OF SYMMETRIC DIFFERENCES IN METRIC MEASURE SPACES
10:15 – 10:30	Dhurata Valera Agron Tato	CLASSIFICATION OF PSEUDO-ADDITIVE MEASURES AND SOME RELATIONS IN PSEUDO- ANALYSIS
10:30 – 10:45	Bora Qoshe Elior Vila	APPLICATIONS OF MATHEMATICAL CONCEPTS IN CRYPTOGRAPHY SYSTEMS
10:45 – 11:00	Argesta Stërgu Dhurata Valera	MATHEMATICS THROUGH AUTOMATIC LEARNING IN A STUDY MODEL FOR THE AGE- GROUP AND GENDER MOST AFFECTED BY CARDIOVASCULAR DISEASES
11:00 – 11:15	Dhurata Valera Bederiana Shyti Silvana Paralloj	COMMUNICATIONS TO THE PSEUDO-ADDITIVE PROBABILITY MEASURE AND THE INDUCED PROBABILITY MEASURE REALIZED BY $\bar{g}-TRANSFORM$
11:15 – 12:00	Ervin Gjeka Bederiana Shyti Imelda Hyka	DYNAMIC ECONOMETRIC MODEL
12:00 – 12:15	Pranvera Lleshanaku Dhurata Valera	SOLVING DIFFERENTIAL EQUATIONS WITH THE EULER METHOD IN EXCEL AND MATLAB
12:15 – 12:30	Imelda Hyka Bederiana Shyti Ervin Gjeka	RENEWAL PROCESSES
12:30 – 12:45	Megi Kume Elvin Rada	COMPARISON OF RIEMANN, LEIBNIC, HENSTOCK-KURZWEIL INTEGRALS WITH RESPECT TO THE FUNDAMENTAL THEOREMS OF INTEGRATION
12:45 – 13:00	Concluding remarks of the SESSION	Moderators

SESSION II

Physics and Applications

Conference Room: The University Library, Room "Martin Camaj" 09:30 – 12:45

Moderators		Dr. Blerina PAPAJANI Dr. Luan KOLA Dr. Genti PROGRI Dr. Idajet SELMANI
Time	Speakers	Presentation Title
09:30 – 09:45	Damiano Koxhaj	FULL WAVEFORM MOMENT TENSOR INVERSION METHOD FOR FAULT PLANE SOLUTIONS
09:45 – 10:00	Blerina Papajani Albana Hasimi Genti Progri	THERMO OPTICAL CHARACTERIZATION OF PURE AND RECYCLED IPP AND LDPE. FACTORS AFFECTING THEIR CRYSTALLIZATIONS
10:00 – 10:15	Daniela Halili Urim Buzra Driada Mitrushi	LOSS IN EFFICIENCY OF SOLAR COLLECTORS DUE TO INCLINATION ANGLE
10:15 – 10:30	Eno Bakiri Idajet Selmani Blerina Papajani Xhyhere Zagani Gloria Dimco	RADIATION γ AND PROTECTION
10:30 – 10:45	Fatmir Basholli Adisa Daberdini	INFLUENCE OF TERRAIN AND ATMOSPHERIC CONDITIONS ON THE PROPAGATION OF RADIO WAVES
10:45 – 11:00	Blerina Papajani Albana Hasimi Partizan Malkaj Idajet Selmani Alketa Sinanaj	THE DEPENDENCE OF CROSSLINK DENSITY AND CREEP MODULUS OF ELASTOMERS FROM TIME AND TEMPERATURE
11:00 – 11:15	Genti Progri Blerina Papajani	RELATIONSHIP BETWEEN HARDNESS AND TENSILE STRENGTH FOR ELBASAN STEEL
11:15 – 12:00	Alketa Sinanaj Blerina Papajani Nikolla Civici	CALCULATION OF THE CONCENTRATION OF ELEMENTS IN ENVIRONMENTAL SAMPLES USING FUNDAMENTAL PARAMETERS METHOD AND XRF PORTABLE SYSTEMS

12:00 – 12:15	Genti Progri Entela Progri	ORIENTATION OF THE ROBOT'S MOVEMENT TOWARDS A PREDETERMINED AREA WITHOUT OBSTACLES, WITH THE HELP OF NEURAL NETWORKS (NN), OPTIMIZED WITH GENETIC ALGORITHMS (GA)
12:15 – 12:30	Rexhep Rada Erind Bedalli	APPLICATION OF SUPPORT VECTOR MACHINES IN EDUCATION
12:30 – 12:45	Elsa Qoku	THE FORMATION OF CRYSTALLINE AND AMORPHOUS PHASE HYDRATES IN TERNARY BINDERS DURING HYDRATION
	Concluding remarks of the SESSION	Moderators

12:45 - 13:30

CONFERENCE CONCLUSIONS

The University Library, Rooms 001/003