



TIM 22
PHYSICS CONFERENCE

FINAL PROGRAM

Theoretical and Computational Physics (TCP)

Thursday, 24th of November 2022

Thursday, 24th of November 2022		
A11		
TCP Session 1		
<i>Chairman:</i> Ion I. Cotaescu		

11:00-11:30	TCP-I01	TOWARD OBJECT ORIENTED BAYESIAN TWO-RULE AUTOMATIC ADAPTIVE QUADRATURE Gheorghe Adam and Sanda Adam
11:30-11:50	TCP-O01	QUANTUM EFFECTS RELATED TO TOROIDAL DIPOLE MOMENTS AND THE POSSIBILITY OF OBSERVING THEM M. Dolineanu and D. V. Anghel
11:50-12:10	TCP-O02	SUPER-EXCITED STATES OF NS RELEVANT FOR ELECTRON/NS+ COLLISIONS Felix Iacob , N. Pop, F. Gauchet, J. Zs Mezei, I. F. Schneider and J. Tennyson
12:10-12:30	TCP-O03	UNIVERSAL DECAY LAW FOR A-DECAY WITH SCREENING CORRECTION Andreea I. Budaca
12:30-12:50	TCP-O04	LATTICE BOLTZMANN MODEL FOR DENSE GAS FLOWS Sergiu Busuioc

Friday, 25th of November 2022

Friday, 25th of November 2022		
A11		
TCP Session 2		
Chairman: Felix Iacob		

10:00-10:30	TCP-I02	A POWERFUL TOOL FOR PARTICLE PHYSICS: THE GENERALIZED GAUGE MODEL $SU(3)_C \otimes SU(N)_L \otimes U(1)_Y$ Adrian Palcu
10:30-10:50	TCP-O05	MEASUREMENT-INDUCED NONLOCALITY FOR OBSERVERS NEAR A BLACK HOLE Adam Kaczmarek and Dominik Szczęśniak and Sabre Kais
10:50-11:10	TCP-O06	ATTRACTORS FOR FLOW OBSERVABLES IN 2+1D BJORKEN FLOW Victor E. Ambruş , Clemens Werthmann and Sören Schlichting
11:10-11:30	TCP-O07	DESCRIPTION OF THE WOBBLING MOTION THROUGH A BOSON METHOD Robert Poenaru
11:30-11:50	TCP-O08	INVESTIGATION OF GAMMA PHOTON SOURCES USING NEAR-CRITICAL DENSITY TARGETS TOWARDS THE OPTIMIZATION OF THE LINEAR BREIT-WHEELER PROCESS Iuliana M. Vladisavlevici , X. Ribeyre, D. Vizman, E. d'Humieres
11:50-12:10	TCP-O09	CYLINDER QUANTUM FIELD THEORIES AT SMALL COUPLING Andrei Ioan Dogaru and Ruben Campos Delgado

Thursday, 24th of November 2022

	Aula Magna of the West University of Timisoara
	Faculty of Physics - 60 years Anniversary Ceremony (part I)
13:30-14:00	Reception of the participants
14:00-16:00	Opening of the event, The speech of the Dean, Presentation of the history of the Faculty, Guest speeches.
16:00-16:30	Coffee Break
16:30-18:00	Faculty of Physics - 60 years Anniversary Ceremony (part I)
14:00-16:00	DHC messages, Alumni, Tribute to senior teachers

Thursday, 24th of November 2022

19:00-23:00	Conference Banquet <i>Beer Factory Restaurant</i>
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Wednesday, 23rd of November 2022

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18:00-19:00	Posters Session 1 (TCP + 1/2API) Faculty of Physics 2nd Floor
TCP-P1	RECONSTRUCTION OF FEMTOSECOND LASER PULSES BY CONVOLUTIONAL NEURAL NETWORKS István Tóth, Katalin Kovács and Valer Toşa
TCP-P2	STATISTICS OF MOON SURFACE CRATERS T.-G. DUMITRU, R. SOLOMON, A.I. NICOLIN
TCP-P3	PRODUCTION OF Z BOSONS AND ELECTRON-POSITRON PAIR IN DE SITTER UNIVERSE Cosmin Crucean and Diana Dumitrele
TCP-P4	WAITING TIMES DISTRIBUTIONS IN CRIPTOCURRENCY EXCHANGE RATES T-G. DUMITRU, A.I. NICOLIN and E.G. SPANAKIS
TCP-P5	LAYERED PLANAR TARGETS FOR THE PRODUCTION OF GAMMA BEAMS USING HIGH-POWER LASERS S. MICLUȚA-C MPEANU, D. DORIA, A.I. NICOLIN
TCP-P6	DISTRIBUTION OF WAITING TIMES FOR AVERAGE SEA LEVELS IN TRIESTE HARBOR G.T. Pană and A.I. Nicolin
TCP-P7	NUMERICAL MODELING OF ULTRA HIGH INTENSITY LASER ION ACCELERATION AND GAMMA PRODUCTION FROM OVERDENSE COS2 PROFILE ARGON GAS JETS Tatomirescu Dragos