

11 November (Monday)	
Hall: Díszterem	
Registration	
9:00 - 9:20 Opening	
Chair: Sándor Varró	9:20 - 10:00 Prof. Wolfgang SCHLEICH Quantum theory viewed from Wigner phase space
	10:00 - 10:40 Prof. Paul BUSCH Quantum RMS Deviation and Heisenbergs Error-Disturbance Relation
10:40 - 11:00 Coffee Break	
Chair: Aladár Czitróvszky	11:00 - 11:30 Prof. Alexander V. SERGIENKO Effective Image Recognition Using High-Order Symmetry of Correlated Orbital Angular Momentum (OAM) States
	11:30 - 12:00 Prof. Jenő SÓLYOM Wigner crystals --- New realizations of an old idea
12:30 - 13:30 Lunch Break, Venue: Duna Palota	
Chair: Tamás Bíró	14:00 - 14:40 Prof. Bert SCHROER The role of Wigner's 1939 representation theory in ongoing foundational changes of quantum field theory
	14:40 - 15:20 Prof. Iwo BIAŁYŃICKI -BIRULA Relativistic Wigner functions
15:20 - 15:40 Coffee Break	
Chair: György Wolf	15:40 - 16:20 Prof. Alain ASPECT From Einstein, Bell, Wigner, to entangled quantum bits: a new quantum era
	16:20 - 17:00 Prof. Horst STÖCKER Nuclear Physics at GSI and FAIR
	17:00 - 17:40 Prof. Remo RUFFINI Neutron Stars, Black Holes, and Gamma Ray Bursts: three events with Eugen Wigner in Princeton
18:30 Italian Cultural Institute	

12 November (Tuesday)			
Hall: Nagyterem		Hall: Kisterem	
Chair: Roman Jackiw	8:30 - 8:55 Prof. Thomas L. CURTRIGHT Branched Hamiltonians and Supersymmetry	Chair: István Rácz	8:30 - 8:55 Prof. J.-Y. VINET/Prof. F. FERRINI The quest for gravitational waves: Status of the current ground-based project
	8:55 - 9:20 Dr. Cosmas ZACHOS Deformation Quantization: Quantum Mechanics Lives & Works in Phase-Space		8:55 - 9:20 Dr. Harald LÜCK ET: the Einstein Telescope; designing the third generation of gravitational wave
	9:20 - 9:45 Prof. Hans-Thomas ELZE A cellular automaton perspective on the linearity of quantum mechanics		9:20 - 9:45 Prof. Karsten DANZMANN Gravitational Wave Detection from Space: The eLISA Mission
	9:45 - 10:10 Prof. Lajos DIÓSI Newton force from wave function collapse: a testable emergence time		9:45 - 10:10 Prof. David BLASCHKE Colored condensates deep inside compact stars
10:10 - 10:30 Coffee Break			
Chair: Paul Busch	10:30 - 10:55 Prof. Péter VÁN Classical and Quantum Parts in Madelung Variables	Chair: Zsolt Fülöp	10:30 - 10:55 Prof. Alessandra GUGLIELMETTI The LUNA experiment at Gran Sasso Laboratory
	10:55 - 11:20 Prof. Chryssomalis CHRYSO-MALAKOS Operational Geometry on de Sitter Spacetime		10:55 - 11:20 Dr. Anouj PARIKH The unreasonable effectiveness of experiments in constraining nova nucleosynthesis
	11:20 - 11:45 Prof. Volker SCHOMERUS The Unreasonable Effectiveness of Supersymmetry		11:20 - 11:45 Prof. Claudio SPITALERI The Trojan Horse Method: Recent Applications to Nuclear Astrophysics
12:30 - 13:30 Lunch Break, Venue: Duna Palota			
Chair: Malcolm Stocks	14:00 - 14:25 Prof. Hubert EBERT A first-principles description of the anomalous and spin Hall effects in disordered alloys	Chair: Attila Krasznahorkay	14:00 - 14:25 Prof. Angela BRACCO Nuclear Structure aspects from Gamma-decay from giant resonances
	14:25 - 14:50 Dr. Stephen DUGDALE The Fermi surface of PdCrO ₂		14:25 - 14:50 Dr. Tomohiro UESAKA Interplay between Spin and Isospin in Exotic Nuclei
	14:50 - 15:15 Prof. László SZUNYOGH Chiral asymmetry in nanomagnetism		14:50 - 15:15 Prof. Dimiter BALABANSKI Towards experiments at the new ELI-NP facility
	15:15 - 15:40 Dr. Rudolf ZELLER Recent Advances in the Korringa-Kohn-Rostoker Green Function Method		15:15 - 15:40 Prof. Volker METAG Symmetries and in-medium effects
15:40- 16:00 Coffee Break			
Chair: Malcolm Stocks	16:00 - 16:25 Prof. Julie B. STAUNTON Magnetic materials modelling ab-initio: fluctuating Wigner-Seitz cell magnetic moments, electron scattering resonances	Chair: Gergely Barnaföldi	16:00 - 16:25 Prof. Krzysztof REDLICH Polyakov loop and charge fluctuations as probes of QCD phase transition
	16:25 - 16:50 Dr. Ádám GÁLI Identification and characterization of solid-state single photon emitters		16:25 - 16:50 Prof. Johann RAFELSKI QGP Hadronization: Universal Conditions at SPS, RHIC and LHC
Hall: morning - Felolvasóterem afternoon - Kupolaterem		Hall: Díszterem	
Chair: Wolfgang Schleich	8:30 - 8:55 Prof. Juha JAVANAINEN Wigner function in action: Classical description of measurement back-action	Chair: Sándor Zoletnik	8:30 - 8:55 Prof. Frank CARRÉ Eugene P. Wigners Visionary Contributions to Generations I through IV Fission Reactors
	8:55 - 9:20 Prof. János BERGOU Sequential quantum measurements		8:55 - 9:20 Prof. János GADÓ The reactor ALLEGRO and the sustainable nuclear energy in Central Europe
	9:20 - 9:45 Prof. James FRANSON Nonlocal interferometry using Schrödinger cats		9:20 - 9:45 Prof. Jon HARMAN Overview of EU Demo Design and R&D Studies
9:45 - 10:10 Prof. Vladimir MAN'KO Wigner function and probability representation of quantum states	9:45 - 10:10 Dr. Jean JACQUINOT Progress in magnetic fusion and ITER	10:40 - 11:00 Coffee Break	
Chair: Iwo Białynicki-Birula	10:30 - 10:55 Prof. Gernot ALBER Spontaneous photon emission in cavities	Chair: János Gádó	10:30 - 10:55 Prof. Boris KUTEEV Possible outcome of fusion-fission power plant by 2050 and beyond
	10:55 - 11:20 Prof. Fedor JELEZKO Single dopants in diamond: quantum registers and nanoscale sensors		10:55 - 11:20 Dr. Sándor ZOLETNIK Hungarian contribution to the success of ITER
	11:20 - 11:45 Prof. Dimitris CHARALAMBIDIS ELI-ALPS: A Challenge and Opportunity for European, Regional and National Science		11:20 - 11:45 Dr. Örs LEGEZA Energy Flow Control
11:45 - 12:10 Prof. Renato FEDELE The role of the Wigner function in charged particle beam dynamics	12:30 - 13:30 Lunch Break, Venue: Duna Palota		14:00 - 14:40 Prof. Roman JACKIW Fractional and Majorana Fermions (The physics of Dirac zero-energy modes)
15:20 - 15:40 Coffee Break			
Chair: László Fehér	14:00 - 14:25 Prof. Michel SEMENOV-TIAN-SHANSKY Poisson Geometry of Difference Lax Operators and Difference Galois Theory	Chair: Péter Lévai	14:15 - 14:30 Wigner öröksége Megnyitó
	14:25 - 14:50 Prof. Antal JEVICKI Group Theory Origin of Higher Spin Duality		14:30 - 15:40 Prof. HARGITTAI István Sokoldalú tudós a viharos 20. században
	14:50 - 15:15 Prof. Gregory KORCHEMSKY Hidden symmetries of scattering amplitudes in gauge theories		
15:15 - 15:40 Dr. Pieter VAN ISACKER Geometry of the nuclear shell model	17:00 - 17:20 Closing		16:00 - 16:40 Prof. KOVÁCS László Wigner Jenő, a fasori diák
18:00 Conference Dinner Eugene P. Wigner's Wisdom			
17:00 - 19:00 Poster Session			

13 November (Wednesday)	
Hall: Díszterem	
Chair: Péter Domokos	9:00 - 9:40 Prof. Helmut RAUCH Multi-entanglement of a single particle
	9:40 - 10:20 Prof. KIM Young Suh Poincaré Sphere and a Unified Picture of Wigners Little Groups
	10:20 - 10:30 Information on the Wigner Memorial Tour
10:40 - 11:00 Coffee Break	
Chair: Balázs Újfalussy	11:00 - 11:30 Dr. Malcolm STOCKS E. P. Wigner and the Shaping of a National Laboratory: From the Manhattan Project to the Present
	11:30 - 12:00 Dr. József RÓNAKY The first and best reactor engineer
12:30 - 13:30 Lunch Break, Venue: Duna Palota	
Chair: Zsolt Fülöp	14:00 - 14:40 Prof. Roman JACKIW Fractional and Majorana Fermions (The physics of Dirac zero-energy modes)
	14:40 - 15:20 Prof. Michael WIESCHER Carbon from Red Giants to White Dwarfs The Breit-Wigner Formula, the Wigner Limit, and the Wigner-Seitz Radius
15:20 - 15:40 Coffee Break	
Chair: Péter Lévai	15:40 - 16:20 Prof. Dezső HORVÁTH Broken Symmetries and the Higgs Boson
	16:20 - 17:00 Prof. Anton ZEILINGER Eugene Wigner: A Gedanken Pioneer of the Second Quantum Revolution
17:00 - 17:20 Closing	
18:00 Conference Dinner Eugene P. Wigner's Wisdom	

PROGRAM

Wigner 111 Scientific Symposium

