

Monday morning (Aula - room 2001 on floor 2, chair: Schroeck)

9.00-9.30	9.30-10.30	10.30-11.00	11.00-12.00	12.00-12.30	12.30-14.00
Opening	John Harding. Orthomodular structures of decompositions	Coffee Break	M. Znojil. Ad hoc physical Hilbert spaces in quantum mechanics	S. Mayburov. Fuzzy geometry, unsharpness and quantum dynamics	LUNCH

Monday afternoon

	14.00-14.30	14.30-15.00	15.00-15.30	15.30-16.00	16.00-16.30	16.30-17.00	17.00-17.30	17.30-18.00	
Effect algebras and orthomodular lattices (room 5007, chair: Pulmannová)	G. Jenča. A survey of homogeneous effect algebras	A. Dvurečenskij. On kite pseudo effect algebra	M. Kalina. On the MacNeille completion of generalized effect algebras	J. Janda. A Hilbert space operator representation of abelian po-groups of bilinear forms	Coffee Break	P. Pták. Lukasiewicz - groupoid - valued states	M. Navara. New results about symmetric difference in quantum structures	A. Bikchentaev. States on symmetric logics: conditional probability and independence	Effect algebras and orthomodular lattices (room 5007, chair: Chovanec)
Operator algebras and states (room 5032, chair: Hamhalter)	E. Utkina. Measures on projections with probability kernel	M. Matvejchuk. States on conjugation logics	S. Haliullin. Orthogonal decomposition of the Gaussian measure	B. Lindenhovius. Reconstructing a C*-algebra from its commutative C*-subalgebras		J. Hamhalter. Mackey-Gleason problem for Jordan type maps and orthoisomorphisms of projection lattices	E. Turilova. Completeness of Gelfand-Neumark-Segal inner product space of positive maps on Jordan and C*-algebras	M. Bohata. Star order and Jordan structures	Operator algebras and states (room 5032, chair: Podseďkowska)
Quantum computation and quantum structures (room 5008, chair: Sozzo)	M. L. Dalla Chiara. A first-order epistemic quantum computational semantics	G. Sergioli. Compositional and holistic conjunctions in quantum computation	R. Leporini. Entanglement and quantum logical gates	C. Garola. Outline of a generalization and reinterpretation of quantum mechanics recovering objectivity		P. Fraćkiewicz. Quantum signaling game	R. Hudson. Quantum Lévy area	D. Edwards. Einstein's dream	Quantum computation and quantum structures (room 5008, chair: Eva)
Quantum dynamics (room 2001, chair: Ziman)	S. Mayburov. Information transfer and randomness in quantum measurements	R. Wieczorek. On the form of the optimal measurement for the probability of detection	W. Sulis. A process model of quantum mechanics	J. Bergfeld. Axiomatizing probabilistic logic for quantum programs		D. Benraba. Master equation in stochastic phase space	P. Verrucchi. Dependence of decoherence and quantum measurement processes on the number of environmental dynamical variables	F. Růžička. Multiply degenerate exceptional points and quantum phase transitions	Quantum dynamics (room 2001, chair: Beneduci)

Tuesday morning (room 5007, chair: Tsinakis)

9.00-10.00	10.00-10.30	10.30-11.30	11.30-12.30	12.30-14.00
Matt Leifer. Is the quantum state real?	Coffee Break	S. Gudder. A unified approach to discrete quantum gravity	P. Pták. Orthocomplemented posets with a symmetric difference	LUNCH

Tuesday afternoon

	14.00-14.30	14.30-15.00	15.00-15.30	15.30-16.00	16.00-16.30	16.30-17.00	17.00-17.30	17.30-18.00	18.00-18.30	
Effect algebras and orthomodular lattices (room 5007, chair: Jenča)	E. Vinceková. Representation of concrete logics and concrete generalized orthomodular posets	L. Korf. The C*-algebra generated by phase-space fuzzy localization operators: a singular-value-based decomposition	S. Pulmannová. Synaptic algebras as models for quantum mechanics	I. Chajda. Coupled right orthosemirings induced by orthomodular lattices	Coffee Break	F. Chovanec. The block structure of distributive D-lattices	M. Hyčko. Generalized weak pre pseudo-effect algebras	S. Gagola. Identities valid in orthomodular lattices		Effect algebras and orthomodular lattices (room 5007, chair: Kalina)
Application of quantum structures in non-physical domains (room 5032, chair: Leporini)	M. L. Dalla Chiara. A quantum approach to vagueness and to the semantics of music	S. Sozzo. Quantum structure in cognitive processes and the logical foundations of human reasoning	T. Veloz. The abstract-concrete dimension of the conceptual realm and Heisenberg's uncertainty principle	E. Haven. Beyond para-quantization: Quantization and quantum-like phenomena		H. Podseǳkowska. Generalised Luders theorem and sufficiency of the fixed-point algebra	A. Luczak. 2-sufficiency of operator algebras	A. Paszkiewicz. Some ultimate solutions of old problems on representations of a self-adjoint operator, and quantum effects		Operator algebras and states (room 5032, chair: Turilova)
Algebra in quantum structures (room 5030, chair: Cirulis)	T. Kowalski. Quasi-MV algebras and the commutators	A. Ledda. On some properties of directoids	T. Cook. Galois connections, P-projections, exposed points, quantum logics, ...	L. Goračinová-Ilieva. Probabilistic groupoids		H. Freytes. An algebraic approach to phase spaces in categorical quantum mechanics	S. Solovjovs. On monoidal nuclei in monoidal topology	M. Korbelář. Quantum theory and semifields		Category theory in quantum structures (room 5030, chair: Frič)
Quantum foundations (room 5008, chair: Heinosaari)	M. Sedlák. Boundariness and minimum-error discrimination	P. Hoehn. A novel approach to characterising quantum theory based on limited information and complementarity	A. Bisio. From quantum cellular automata to deformed special relativity	R. Venkatrama. 1D tight-binding models render quantum first passage time "speakeable"		F. De Martini. Proof of the spin-statistics theorem by conformal quantum geometrodynamics	C. Wang. Bose-Einstein condensation of collective Cooper pairs: A linearized Richardson approach	A. Zuevsky. Algebro-geometric interpretation for recursion formulas for higher genus correlation functions in conformal field theory		Quantum physics (room 5008, chair: ???)

Wednesday morning (room 5007, chair: Leifer)

9.00-10.00	10.00-10.30	10.30-11.30	11.30-12.30	12.30-13.30
Chris Heunen. The many classical faces of quantum structures	Coffee Break	Paolo Perinotti. Quantum cellular automata and quantum field theory	T. Miyadera. Qualitative noise-disturbance relation - an order-theoretic approach	LUNCH

Wednesday afternoon

13.30-18.00
Excursion

18.30-
Conference dinner

Thursday morning (room 5007, chair: Perinotti)

9.00-10.00	10.00-10.30	10.30-11.30	11.30-12.00	12.00-12.30	12.30-14.00
Franklin Schroeck. The many problems with quantum mechanics from the earliest days on and how the theory of quantum mechanics on phase space addresses them	Coffee Break	Constantine Tsinakis. Substructural logics and residuated lattices: the central role of I-groups	K. Svozil. Space and time in a quantized world	T. Kowalski. On when a semantics is not a good semantics: the algebraisation of orthomodular logic	LUNCH

Thursday afternoon

	14.00-14.30	14.30-15.00	15.00-15.30	15.30-16.00	16.00-16.30	16.30-18.30
Effect algebras and orthomodular lattices (room 5007, chair: Navara)	J. Cirulis. Dependency orderings of atomic observables	J. Tkadlec. Distributivity and associativity in effect algebras	P. Žáček. States on effect algebras, their products and horizontal sums	O. Nánásiová. Multidimensional states and non-compatible random events	Coffee Break	IQSA meeting (room 5007)
Category theory in quantum structures (room 5032, chair: Solovjovs)	R. Frič. Generalized random events	M. Papčo. On probability domains III	E. Galatoulas. The calculus of monoidal quantaloids and quantum mechanics	B. Eva. The (absent) modal structure of topos quantum logic		
Quantum information (room 5008, chair: Sedlák)	A. Srinivasamurthy. Essence of nonclassicality: more effect than cause	R. Beneduci. Characterization of the compatible smearings of incompatible observables	K. Lubnauer. Cloning and broadcasting in operator algebras			

Friday morning (room 5007, chair: Rachůnek)

9.00-9.30	9.30-10.00	10.00-10.30	10.30-11.00	11.00-11.30	11.30-12.00	12.00-12.30
J. Pykacz. Can many-valued logic help to comprehend quantum phenomena?	L. Levitin. A quantum limit on the information retrievable from an image	Coffee Break	J. Paseka. Tense operators in quantum structures	S. Goldstein. Infinite measures in noncommutative measure theory	D. Kruml. On reconstruction of a C^* -algebra from its closed right ideals	Closing