

INTERNATIONAL CONFERENCE

**FORMAL METHODS AND
SCIENCE IN PHILOSOPHY
IV**

Inter-University Centre, Dubrovnik, Croatia
April 21–23, 2022

Organizing Committee:

Gianfranco Basti, Pontifical Lateran University, Faculty of Philosophy, Vatican City

Anna Brożek, University of Warsaw, Faculty of Philosophy

Filip Grgić, Institute of Philosophy, Zagreb

Srećko Kovač, Institute of Philosophy, Zagreb

Kordula Świętorzecka, Cardinal Stefan Wyszyński University, Warsaw, Institute of Philosophy

Co-organizing institutions and patronage:

Cardinal Stefan Wyszyński University, Warsaw

Croatian Logic Association, Zagreb

Institute of Philosophy, Zagreb

Inter-University Centre, Dubrovnik

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Inter-University Centre, Ul. don Frana Bulića 4, Dubrovnik, Croatia

Hybrid conference: online and in-person presentations

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PROGRAMME

THURSDAY, MORNING, April 21, 2022

09:00-10:00	Registration	Registration desk
10:00-10:10	<i>Opening</i>	
10:10-11:00	Key-note lecture: Yaroslav SHRAMKO (<i>online</i>), The Nature of Scientific Philosophy and Its Subject Matter	
Conference Hall “Ivan Supek”, basement fl.		Chair: A. Brożek
11:45-12:15	Coffee break	
Parallel sessions, 11:20-13:00		
Session Room F, basement fl.		Chair: S. Kovač
11:20-11:50	G. SCHIEMER, J. KORBMACHER, Logical Concepts and Structural Properties	
11:55-12:25	D. REY, Expressive Power and Intensional Operators	
12:30-13:00	K. ŚWIĘTORZECKA, First-Order Formal Background for Temporal Reductionism	
Session Room G, 1st fl.		Chair: K. Wójtowicz
11:20-11:50	J. ODROWĄŻ-SYPNIEWSKA, Vagueness, Faultless Disagreement, and Commitments	
11:55-12:25	C. VOGEL, Externalism and Vagueness	
12:30-13:00	M. TAŁASIEWICZ, The Method of Cases: Experimental or Formal Philosophy?	
Session Room H, 1st fl., <i>online</i>		Chair: G. Lojkić
11:20-11:50	G. BASTI, The (Co-)Algebraic Logic of the Formal Ontology of the Natural Realism in Quantum Physics and Cosmology	
11:55-12:25	T. TAMBASSI, On the Informativeness of Information System Ontologies	
12:30-13:00	A. LERCHER, Curry’s Critique of the Syntactic Concept of Formal System and Methodological Autonomy for Pure Mathematics	

THURSDAY AFTERNOON, April 21, 2022

PhD Programme Section, parallel sessions, 15:00-16:00

Room F, basement fl.		Chair: M. Porwolik
15:00-15:20	M. GŁOWACKI, The Implicit Commitment Thesis	
15:20-15:40	M. GRBA, M. TROBOK (<i>online</i>), Mathematics vs. the Natural Sciences - the Underlying Logic	
15:40-16:00	P. DOPICO, The Nature of Omnipotence: a Logical Revelation	

Room G, 1st. fl.		Chair: J. Wawer
15:00-15:20	H. TABATABAEI GHOMI, J. STEGENGA (<i>online</i>), No Experience Necessary	
15:20-15:40	I. JÄNTGEN, On the Decision-Guiding Role of Outcome Measures	
15:40-16:00	E. PERRY (<i>online</i>), Error Statistical Evidence as a Two Place Relation	
Room H, 1st. fl.		Chair: M. Łyczak
15:00-15:20	Y. SAPIR (<i>online</i>), Deliberative Inquiry	
15:20-15:40	J. KHAWAJA (<i>online</i>), Rationalizing the Principal Principle for Non-Humean Chance	
15:40-16:00	P. NURKIĆ (<i>online</i>), Formal Models of Epistemic Interactions	
16:00-16:30	Coffee break	
Parallel sessions, 16:30-18:10/18:45		
Room F, basement fl.		Chair: D. Rey
16:30-17:00	K. WÓJTOWICZ, Set Theory and Mathematical Explanations	
17:05-17:35	J. IFLAND, Realism on Thin Ice: An Argument from Mathematical Practice	
17:40-18:10	P. BŁASZCZYK (<i>online</i>), New History of Mathematical Continuum	
18:15-18:45	S. FLETCHER, N. LACKEY (<i>online</i>), The Introduction of Topology into Analytic Philosophy: Two Movements and a Coda	
Room G, 1st. fl.		Chair: J. Odrowąż-Sypniewska
16:30-17:00	J. MIERAU, Admissible blurs – a formal tool to deal with empirical imprecision	
17:05-17:35	J. KACZMAREK, Ontological Versions of Temporal Logics in Wolniewicz Structures of Lattices (including topological interpretation)	
17:40-18:10	B. SKOWRON, Topological Approach to the Object and its Parts	
17:40-18:10	F. TONONI (<i>online</i>), Philosophy and Science: An Ontological Approach	
Room H, 1st. fl.		Chair: M. Tałasiewicz
16:30-17:00	C.J.G. MEACHAM, The Nomic Likelihood Account of Laws	
17:05-17:35	A. MALEC, Legal Rules in Terms of Formal Ontology of Situations	
17:40-18:10	C. MAYO-WILSON, A. SARAF, Scientific Evidence and the Duty to Disclose	
18:45-19:15	Coffee Break	
19:15-20:05	Key-note lecture: Johan van BENTHEM (<i>online</i>), Logic in Philosophy: the Case of Information and Computation	
Conference Hall “Ivan Supek”, basement fl.		Chair: S. Kovač

The time slot for each lecture/talk includes 5–10 minutes for discussion.

09:00-09:50	Key-note lecture: Hannes LEITGEB (<i>online</i>), Philosophy as Rational Construction	
Conference Hall “Ivan Supek”, basement fl.		Chair: K. Świątorzecka
9:50-10:20	Coffee break	
10:20-13:10	Plenary session: <i>Logic, Learning, and Communication:</i> <i>Dedicated to Berislav Žarnić (1959–2017)</i>	
Chair: K. Świątorzecka		Conference Hall “Ivan Supek”, basement fl.
10:20-10:50	T. YAMADA (<i>online</i>), Acts of Commanding, Promising, Requesting, and Asserting in Dynamified Multi-Agent Deontic Epistemic Logic	
10:50-11:20	A. BROŽEK (<i>online</i>), Learning How to Learn: On Berislav Žarnić’s Principles of Education	
11:20-11:50	G. BAŠIĆ HANŽEK, Normative Systems and Communication in Berislav Žarnić’s Philosophy	
11:50-12:20	S. KOVAČ, Norms, Counter-Norms and Ontological Proof	
12:20-12:40	Coffee break	
PhD Programme Section, parallel sessions, 12:40-13:20		
Chair: Room F, basement fl.		J. Kaczmarek
12:40-13:00	A. GOMUŁCZAK, On the Limits of Text-Mining Methods When Applied to the Analytic-Continental Divide Studies	
13:00-13:20	S. JĘDRCZAK (<i>online</i>), Formalizing Transcendental Arguments	
Chair: Room G, 1st. fl.		M. Łyczak
12:40-13:00	T. WYSOCKI (<i>online</i>), The Undeterministic Framework	
13:00-13:20	A. WOODCOCK, A Rejoinder to Pettigrew’s Argument for Symmetry	
Chair: Room H, 1st. fl. <i>online</i>		G. Bašić Hanžek
12:40-13:00	O. BUCHHOLZ, The Curve-Fitting Problem Revisited	
13:00-13:20	R. MILLER, Nonrational Belief Paradoxes as Byzantine Failures	

FRIDAY AFTERNOON, April 22, 2022

13:30-15:00 Lunch

Parallel sessions, 15:00-16:40

Room F, basement fl. Chair: M. Trobok

15:00-15:30 U. WYBRANIEC-SKARDOWSKA (*online*), Operatory
Counterparts of Reasoning

15:35-16:05 M. PORWOLIK, How Much Logic is There in Józef Maria
Bocheński's 'The Logic of Religion'?

16:10-16:40 G. LOJKIĆ, Formal Methods and Cosmological Arguments

Room G, 1st. fl. Chair: G. Schiemer

15:00-15:30 A. WÓJTOWICZ, K. WÓJTOWICZ, Why Lewis is Wrong
About PCCP

15:35-16:05 CP HERTOUGH (*online*), Thought Experiment Analyses of
Albert Einstein's Elevator

16:10-16:40 J. LUC, T. PLACEK, On the Logic of Putnam's (1967)
Argument

Room H, 1st. fl. *online* Chair: B. Skowron

15:00-15:30 M. TKACZYK, The Problem of Future Contingents

15:35-16:05 M. PIEKARSKI, What is the Heuristic of Constrained
Mechanisms? Lesson from Predictive Processing

16:10-16:40 E. RIVELLO, An Abstract Theory of Definitions with an
Application to Self-referential Truth

17.00-18.30 Sightseeing

20:15-21:05 **Key-note lecture:**

Susan HAACK (*online*), Scientistic Philosophy, No; Scientific
Philosophy, Yes

Conference Hall "Ivan Supek", basement fl.

Chair: A. Brożek

The time slot for each lecture/talk includes 5–10 minutes for discussion.

SATURDAY MORNING, April 23, 2022

PhD Programme Section, parallel sessions, 9:00–9:40

Room F, basement fl. <i>online</i>		Chair: J. Ifland
09:00-09:20	V. K. D. BUMATAY, Formal Schemas of Induction as Models	
09:20-09:40	A. JHA, Not So Distinctively Mathematical Explanations	
Room G, 1st fl.		Chair: G. Lojkić
09:00-09:20	M. NOWAK (<i>online</i>), On the Equivalence of Modal Logics S4 and S5 with Non-Fregean Theories WT and WH	
9:20-09:40	M. PELIAN, A. A. ZAKOSZTOWICZ, On Modelling of Real and Ideal Being, Using the Principles of Identity and Causality	
9:40-10:00	Coffee break	

Parallel sessions, 10:00-11:40/12:15

Room F, basement fl.		Chair: S. Kovač
10:00-10:30	K. MRUCZEK NASIENIEWSKA, M. NASIENIEWSKI, A. PIETRUSZCZAK (<i>online</i>), A Framework for Modal Extensions of the Discursive Logic	
10:35-11:05	V. ARANDA UTRERO, M. A. MARTINS (<i>online</i>), Description Operators in Partial Propositional Logic	
11:10-11:40	M. ŁYCZAK, Semantics of Cyclic Branching Time	
11:45-12:15	J. WAWER, The Logic(s) of Continuations	
Room G, 1st. fl.		Chair: J. Mierau
10:00-10:30	L. CONTI (<i>online</i>), Arbitrary Abstraction and Logicality	
10:35-11:05	J. GAMPER (<i>online</i>), Self-consciousness and Black Hole Singularities	
11:10-11:40	Y. SHAN, How to Establish a Causal Claim in the Social Sciences	
11:45-12:15	V. SIKIMIĆ (<i>online</i>), Has Science Killed Philosophy? The Use of Scientific Methods in Philosophy	
Room H, 1st. fl. <i>online</i>		Chair: C. Vogel
10:00-10:30	J. BELASTEGUI, A Classical Natural Kind Semantics for an Essentialist Theory of Kinds	
10:35-11:05	H. NOH, Unconscious Interpretations	
11:10-11:40	See ROOMS F and G above	
11:45-12:15	See ROOMS F and G above	
12:15-12:45	Coffee break	

12:45-13:15 Closing discussion and resume (Conference Hall, basement fl.)

The time slot for each lecture/talk includes 5–10 minutes for discussion.

Zoom links:

Conference Hall “Ivan Supek” = Room F, basement fl.

Join Zoom Meeting **Link 1**

<https://us06web.zoom.us/j/81130605821?pwd=VC85RHZRZU9lSWFmUm42dEJGUgTmdz09>

Meeting ID: 811 3060 5821 Passcode: 873854

Room G, 1st fl.

Join Zoom Meeting **Link 2**

<https://us06web.zoom.us/j/81797556652?pwd=M0psRzhkZ3ArZ05GSjJDc0NKWUQyUT09>

Meeting ID: 817 9755 6652 Passcode: 496574

Room H, 1st fl.

Join Zoom Meeting **Link 3**

<https://us06web.zoom.us/j/86189508506?pwd=c0pVVV1JXaE5YdUc0aTRZaE1SNmFQUT09>

Meeting ID: 861 8950 8506 Passcode: 783625

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