

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 Świątorzecka, 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

University of Warsaw, Warsaw

Dr. sc. Luka Bořić, Director of the Institute of Philosophy, Zagreb; Prof. dr. hab.

Paweł Łuków, Dean of the Faculty of Philosophy of the University of Warsaw;

Prof. dr. hab. Ryszard F. Sadowski, Director of the Institute of Philosophy of the Cardinal Stefan Wyszyński University, Warsaw

*Publisher:*

Institute of Philosophy, Zagreb, 2022

*Conference venue:*

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

Hybrid conference: online and in-person presentations

The conference is supported by: Institute of Philosophy in Zagreb, Cardinal Stefan Wyszyński University in Warsaw, Croatian Logic Association, Ministry of Science and Education of the Republic of Croatia, University of Warsaw.

# PROGRAMME

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*THURSDAY, MORNING, April 21, 2022*

09:00-10:00	Registration	Registration desk
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10:00-10:10	<i>Opening</i>	
10:10-11:00	<b>Key-note lecture:</b> Yaroslav SHRAMKO ( <i>online</i> ), The Nature of Scientific Philosophy and Its Subject Matter	
Conference Hall “Ivan Supek”, basement fl.		Chair: A. Brożek
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11:00-11:20	Coffee break	
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Parallel sessions, 11:20-13:00		
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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	
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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?	
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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	
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*THURSDAY AFTERNOON, April 21, 2022*

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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	<b>Key-note lecture:</b> 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.

## FRIDAY, MORNING, April 22, 2022

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09:00-09:50 **Key-note lecture:**  
Hannes LEITGEB (*online*), Philosophy as Rational Construction

Conference Hall “Ivan Supek”, basement fl. Chair: K. Świątorzecka

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9:50-10:20 Coffee break

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10:20-13:10 **Plenary session:**

*Logic, Learning, and Communication:*

*Dedicated to Berislav Žarnić (1959–2017)*

Chair: K. Świątorzecka Conference Hall “Ivan Supek”, basement fl.

10:20-10:50 T. YAMADA (*online*), Acts of Commanding, Promising,  
Requesting, and Asserting in Dynamified Multi-Agent Deontic  
Epistemic Logic

10:50-11:20 A. BROŽEK (*online*), 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

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12:20-12:40 Coffee break

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PhD Programme Section, parallel sessions, 12:40-13:20

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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 (*online*), Formalizing Transcendental Arguments

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Chair: Room G, 1st. fl. M. Łyczak

12:40-13:00 T. WYSOCKI (*online*), The Undeterministic Framework

13:00-13:20 A. WOODCOCK, A Rejoinder to Pettigrew’s Argument for  
Symmetry

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

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 FRIDAY AFTERNOON, April 22, 2022
 

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 13:30-15:00 Lunch
 

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 Parallel sessions, 15:00-16:40
 

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 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
 

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 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 HERTOGH (*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
 

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 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
 

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 17.00-18.30 Sightseeing
 

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 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
 

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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

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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

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

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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 Discussive 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.)

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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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