

GWP.2022 – The Fourth International Conference of the German Society for Philosophy of Science
Technische Universität Berlin, Straße des 17. Juni 135 (Main building), Berlin-Charlottenburg

as at 17 August 2022, 1pm

Monday, 15th August 2022

08:00-09:00 Registration (Room H1035 / 1st floor)

09:00-09:15	H0105 (Audimax)				
	Opening Remarks: Gerhard Schurz, GWP President Axel Gelfert, Chair, Local Organizing Committee Welcome Address: Stephan Völker, Erster Vizepräsident, TU Berlin				
09:15-10:45 Plenary	H0105 (Audimax)				
	Hans Rott: "Relevance and Conditionals" – Chair: Gerhard Schurz				
10:45-11:00	Coffee break – H3005				
11:00-13:00 Parallel sessions: Contributed papers & symposia	H1012	H1058	H2013	H2038	H3010
	Observation, Idealization, Induction: Case Studies <i>Chair: Sahra Styger</i> Matthew Lund. <i>Bessel and the Epistemology of Observational Relativity</i> Edoardo Peruzzi and Gustavo Cevolani. <i>Defending (de-) idealization in economic modelling: a case study</i> Idit Chikurel. <i>Maimon as a Baconian: Induction, Empirical Objects and Natural Histories</i>	Models and Representations <i>Chair: Axel Gelfert</i> David Hommen. <i>Poetry and Truth – Scientific Models as Perspicuous Representations</i> Julia Sánchez-Dorado. <i>Judgments of similarity and a pragmatic account of representation</i> William D'Alessandro. <i>Unrealistic Models in Mathematics</i>	SYMPOSIUM: Mechanisms in the Cognitive and Social Sciences Beate Krickel. <i>What mechanisms can do for (the philosophy of) cognitive science and psychology other than explaining</i> Jon Williamson. <i>Applying Evidential Pluralism to the Social Sciences</i> Yafeng Shan. <i>Is evidence of mechanisms sufficient for making within-case causal claims?</i> NB: The order of the last two talks has been swapped	Historical Perspectives <i>Chair: Birgit Beck</i> Stephan Fischer. <i>Zur Konzeption der Globalgeschichte</i> Filip Buyse. <i>The Physiologist Johannes Peter Müller and the Philosopher Spinoza: An Underestimated Relation</i> Yuval Eytan. <i>Hobbes on Scientific Happiness</i>	SYMPOSIUM: The Replication Crisis and Philosophy of Science Johanna Sarisoy. <i>A failure to replicate - a failure of what?</i> Sam Fletcher. <i>Replication is for meta-analysis</i> Sophia Crüwell. <i>Reframing the replication crisis as a crisis of inference</i>

13:00-14:00	Lunch break – light refreshments provided in H3005				
14:00-16:40	H1012	H1058	H2013	H2038	H3010
Parallel sessions: Contributed papers	Philosophy of Physics (1) <i>Chair: Karim Baraghith</i> Niels Martens. <i>Comparing the explanatory power of ΛCDM & modified gravity</i> Cancelled Frida Trotter. <i>Breaking underdetermination with norms</i> Iulian Toader. <i>Einstein Completeness as Categoricity</i> Cancelled Tina Wachter. <i>Does Referencing in QM Require Free Logic?</i>	Scientific Realism and the Practices of Science <i>Chair: Sam Fletcher</i> Raimund Pils. <i>Scientific Realism and Epistemic Risk</i> Matthias Egg. <i>Quantum Fundamentalism vs. Scientific Realism</i> Sébastien Rivat. <i>How Theoretical Terms Effectively Refer</i> Enno Fischer. <i>Naturalness: a Constitutive Principle</i>	Epistemology of Science <i>Chair: Christian Feldbacher-Escamilla</i> Lara Huber. <i>Epistemic Significance: Broadening the Perspective</i> Daniel Minkin. <i>Conspiracy Theories: Some Teachings from Philosophy of Science</i> Lorenzo Spagnesi. <i>Idealization and Knowledge of Nature: A Kantian Approach</i> Noelia Iranzo Ribera. <i>Counternomic Reasoning as Make-Believe</i>	Laws of Nature <i>Chair: Andreas Hüttemann</i> Mousa Mohammadian. <i>An Armstrongian Defense of Dispositional Monist Accounts of Laws</i> Markus Schrenk. <i>Which Predicates, which Properties for Better Best Systems?</i> Vassilis Livanios. <i>Thin Powers and the Governing Problem</i>	Science in its Social Context newly assigned Chair: Axel Gelfert Anna Leuschner and Manuela Fernández Pinto. <i>Research on Shooting Bias: Social and Epistemic Problems</i> Olivier Ouzilou. <i>Social sciences and conspiracy theorizing: the problem of collective entities</i> Simon Blessenohl and Deniz Sarikaya. <i>A Norm for Science Advice: Making Beliefs Accurate</i> Luca Malatesti, Marko Jurjako and Inti Brazil. <i>Integrating legal categories with biocognitive data: the case of the insanity defence</i>
16:40-17:00	Break				
17:00-18:30	H0104				
Plenary	De Gruyter Lecture Mazviita Chirimuuta: “Formal Idealism/Haptic Realism” – Chair: Holger Lyre				
18:30-19:00	Break				
19:00-...	Restaurant Bhetghat Conference dinner				

Tuesday, 16th August 2022

09:00-10:30	H0104						
Plenary	Jutta Schickore: "Causation, Observation, and Experiment: Reflections on Practical Inquiry in the German Lands Around 1800" – Chair: Alexander Gebharder						
10:30-11:00	Coffee break – H3005						
11:00-13:00	H0105 (Audimax)	H0102	H1058	H2013	H2038	H3006	H3010
Parallel sessions: Contributed papers & symposia	<p>SYMPOSIUM: <i>The Cybernetic Renaissance</i></p> <p>Hajo Greif. <i>Analogue Models and Universal Machines: The Separation and Realignment of Cybernetic Paradigms</i></p> <p>Wiktor Rorot. <i>Counting on the Cilia: Cybernetics, Morphological Computation, and Computational Enactivism</i></p> <p>Krzysztof Dolega. <i>What can Free Energy Modelers Learn from Cybernetics?</i></p>	<p>Science and Values (1)</p> <p>Chair: Michael Poznic</p> <p>Cancelled Jacob Stegenga and Tarun Menon. <i>A New Defence of the Value-Free Ideal</i></p> <p>Jitka Paitlova. <i>The value of value neutrality</i></p> <p>Torsten Wilholt. <i>Symmetries and Asymmetries in Epistemic Risk Management</i></p>	<p>Psychology and Psychiatry</p> <p>Chair: Beate Krickel</p> <p>Lena Kästner. <i>Multiplexes: New Directions for Computational Psychiatry?</i></p> <p>Mario Santos-Sousa. <i>Progress in Psychiatry</i></p> <p>Antonella Tramacere. <i>Has the evolutionary study of the mind reached an impasse?</i></p>	<p>Mind, Method, Mechanism</p> <p><i>newly assigned Chair:</i> <i>Dirk Koppelberg</i></p> <p>Daniel Kostic and Willem Halffman. <i>Explanatory imperialism: empirical evidence for the claims about pervasiveness of "mechanisms" in life sciences</i> <i>Modified title:</i> <i>Empirical Evidence for the Explanatory Language in the Neuroscience</i></p> <p>Barnaby Crook. <i>The Compact Core - Emergent Structure Distinction in Artificial and Biological Neural Networks</i></p> <p>Lukas J. Meier. <i>Thought</i></p>	<p>Organisms and Superorganisms</p> <p>Chair: Filip Buyse</p> <p><i>This speaker will join the session remotely (via Zoom):</i> Spyridon Koutroufinis. <i>The Phenomenon of Organism – Three Different Levels of Analysis</i></p> <p>Antonio Danese. <i>Flowers and Teleology</i></p> <p>Ana Katic. <i>The Dynamical Biological Explanation: A New Perspective for the Concept of Superorganism</i></p>	<p>SYMPOSIUM <i>The Legitimacy of Generalizing Darwinism</i></p> <p>Martin Valkovic. <i>Cultural evolution of human cooperation</i></p> <p>Agathe du Crest. <i>Objectivity at stake in mathematical models: the study case of evolutionary history</i></p> <p>Hugh Desmond, Andre Ariew, Philippe Huneman, Thomas Reydon. <i>The varieties of Darwinism: An integrated dynamic account</i></p>	<p>Method Transfer Across Disciplines and Scales</p> <p>Chair: Alexander Gebharder</p> <p>Christian J. Feldbacher-Escamilla and Philipp Haueis. <i>Patchwork Approaches to Concepts and Different Scales</i></p> <p>Aznavur Dustmamatov. <i>Geography as Science: The Limits of the Geo-Ontological Approach</i></p>

				Experimentation as a Scientific Method			
13:00-14:30	Lunch break – light refreshments provided in H3005						
14:30-17:10 Parallel sessions: Contributed papers	H0105 (Audimax) Engineering, Technology, Simulation <i>Chair: Matej Kohár</i> Christopher Pincock and Michael Poznic. <i>What do engineers understand? The case of biological methanation</i> Céline Gressel. <i>The Usage of Extended Reality Technologies in the Contexts of a healthy Life and their Impact on Well-being</i> Dawid Kasprowicz, Daniel Wenz and Gabriele Gramelsberger. <i>How to Explore Scientific Code? (in Philosophy of Science)</i> Cancelled – Marianne van Panhuys and Rafaela Hillerbrand. Epistemic risks and	H1012 Causal Methods <i>Chair: Vera Hoffmann-Kolss</i> Samuel Fletcher. <i>Causal Modeling as Counterfactual Semantics</i> Paul M. Näger. <i>Evidence for interactive common causes. Resuming the Cartwright-Hausman-Woodward debate</i> Donal Khosrowi. <i>Extrapolating Causal Effects - Where Is Our Theory of Confidence?</i> Jan Borner. <i>Causal Power Quantified - A Generalisation and Defense of Cheng's Causal Power Measure</i>	H1058 The Social Organization of Science <i>Chair: Axel Gelfert</i> Cancelled – Vlasta Sikimić. Efficient Team Structures in Biology K. Brad Wray. <i>The Epistemic Significance of the Size of Research Teams</i> Li-An Yu. <i>Epistemic injustice of climate change: the coherence problem of specific and general information</i> Sacha Ferrari. <i>Uberized science is the new black</i>	H2013 Session cancelled Philosophy of Physics (2) <i>Chair: Cord Friebe</i> Ryan Miller. Mereological Atomism's Quantum Problems Talk has been moved to session "General Philosophy of Science (1)" (H3010) Cancelled – David Schroeren. State-Space First Ontology: An Escape from the Pessimistic Meta-Induction?		H3006 Philosophy of Biology <i>Chair: Marcel Weber</i> Rose Trappes. <i>The Pervasiveness of Sex in Behavioural Ecology</i> Franziska Reinhard. <i>Re-Construction or Re-Invention? Experimental Research into the Origins of Life</i> Vito Balorda and Predrag Šustar. <i>Natural Selection: Pathway or Mechanism? Insights from Cancer Research</i> Aleksandar V. Božić. <i>Explaining the vagueness of life: „individuals thinking“ vs. natural kinds approach</i>	H3010 General Philosophy of Science (1) <i>Chair: Sébastien Rivat</i> Ludwig Fahrbach. <i>The abundance of scientific evidence for our best theories: Too much of a good thing?</i> Jens Harbecke. <i>Mechanistic Constitution as a Natural Law</i> Cancelled – Anne Sophie Meincke. Free Will and the Metaphysics of Agency added from "Philosophy of Physics (2)" Session / This speaker will join the session remotely (via Zoom): Ryan Miller. Mereological Atomism's Quantum Problems

	computer simulation: a case study from particle physics						This speaker will join the session remotely (via Zoom): Qiu Lin. <i>Du Châtelet on Mechanical Explanation vs. Physical Explanation</i>
17:10-17:30	Coffee break – H3005						
17:30-19:00 Plenary	H0105 (Audimax) Anjan Chakravartty: “The Role of Epistemic Stances in Interpreting Science: Naturalistic Challenges” – Chair: Axel Gelfert						
19:00-19:15	Break						
19:15-...	H0104 GWP General Assembly (GWP members only)						

Wednesday, 17th August 2022

09:00-10:30 Plenary	H0105 (Audimax) Branden Fitelson: “Bayesianism & Explanationism” – Chair: Christian Feldbacher-Escamilla						
10:30-11:00	Coffee break – H3005						
11:00-13:00 Parallel sessions: Contributed papers & symposia	H0105 (Audimax) Explanation (1) <i>Chair: Thorsten Wilholt</i> Stefan Roski. <i>In Defence of Explanatory Realism</i> Alexander Gebharter and Christian J.	H1012 Evolution Session cancelled Marcel Weber. <i>Modeling Modality: The Case of Evolvability in Evo-Devo (cancelled)</i>	H1058 GAP-SYMPOSIUM Learning from Data: The Secret to Success Konstantin Genin. <i>Causal Discovery and the</i>	H2013 Mathematics <i>Chair: Markus Schrenk</i> Daniel Koenig. <i>The Objectivity of Mathematics. On the Reception of 19th-Century Mathematics</i>	H2038 Logic and Language <i>Chair: Oliver Buchholz</i> Ivan Nenchev and Benjamin Wilck. <i>Linguistic versus Metalinguistic Testing in Schizophrenia Research</i>	H3006 SYMPOSIUM Are all Laws of Physics Created Equal? Salim Hirèche, Niels Linnemann, Robert Michels, Lisa Vogt. <i>Scrutinising non-absolutist law accounts on physics: The case for</i>	H3010 Bayesian Approaches <i>Chair: Hajo Greif</i> Thomas Blanchard and Andreas Hüttemann. <i>Causal Bayes Nets, Causal Exclusion, and Symmetric Dependence</i>

	<p>Feldbacher-Escamilla. <i>Unification and Explanation: A causal perspective</i></p> <p>Martina Blečić and Predrag Šustar. <i>Biological Metaphors as Vehicles for Explanation?</i></p>	<p>Leon de Bruin and Daniel Kostic. <i>How evolutionary and environmental factors shape the relationship between structural functional connectivity</i> (cancelled)</p> <p>Inigo Ongay de Felipe. <i>What is the role of Philosophy of Biology with regard to the Extended Evolutionary Synthesis and why should it matter</i> (moved to Explanation II)</p>	<p><i>Randomized Controlled Trial</i></p> <p>Tom Sterkenburg. <i>The No-Free-Lunch Theorems of Supervised Learning</i></p> <p>Francesca Zaffora Blando. <i>Merging of Opinions for Computable Bayesian Agents and Algorithmic Randomness</i></p>	<p><i>in Ernst Cassirer's Philosophy of Culture.</i></p> <p>Deborah Kant. <i>Deep peer disagreement in set theory</i></p>	<p>Sebastian Sunday Grève. <i>Turing's Philosophy of Intelligence</i></p> <p>Benjamin Wilck. <i>Logic and Language in Euclid's "Elements"</i></p>	<p><i>a non-absolutist DTA account</i></p> <p>Andreas Bartels: <i>Kinematical constraints: No support for non-absolutism about laws of nature</i></p> <p>Salim Hirèche, Niels Linnemann, Robert Michels: <i>On the relationship between meta- and non-absolutist laws</i></p>	<p>Christoph Merdes. <i>Learning Source Reliability on Multiple Propositions</i></p> <p>Jonas Raab. <i>Too Many Dutch Book Arguments?</i></p>
13:00-14:30	Lunch break						
14:30-16:30	H0105 (Audimax)	H1012	H1058	H2013	H2038	H3006	H3010
Parallel sessions: Contributed papers	<p>Explanation (2)</p> <p><i>Chair: Stefan Roski</i></p> <p>Philipp Haueis. <i>Patchwork concepts and the norms of explanation</i></p> <p>Gregor Hörzer. <i>Constitutive Relevance First: Mechanistic Explanations without Mechanisms?</i></p>	<p>Biomedical Science</p> <p><i>Chair: Julia Sánchez-Dorado</i></p> <p>Mariusz Maziarz. <i>A Perspectival View on Inconsistent Results of Clinical Trials</i></p> <p>Julia Mirkin. <i>Trust in Research on Human Germline Genome Editing</i></p> <p>This speaker will join the session remotely (via Zoom): Saana</p>	<p>Machine Learning and Game Theory</p> <p><i>Chair: Tom Sterkenburg</i></p> <p>Luis Lopez. <i>Machine Learning Models and Understanding of Phenomena</i></p> <p>Oliver Buchholz. <i>The Curve-Fitting Problem Revisited</i></p> <p>Jules Salomone-Sehr and Sacha</p>	<p>General Philosophy of Science (2)</p> <p><i>Chair: Li-an Yu</i></p> <p>Radin Dardashti. <i>On the theory-ladenness of theorizing</i></p> <p>Anna Elisabeth Höhl. <i>Grasping and Explaining – The GE-Account of Scientific Understanding</i></p> <p>Niki Pfeifer. <i>The probabilistic turn in the psychology of</i></p>	<p>Mind and Cognition</p> <p><i>Chair: Dirk Koppelberg</i></p> <p>Karim Baraghith and Christian Johann Feldbacher-Escamilla. <i>From Reduction to Unification: The Case of Cultural Evolutionary Psychology</i></p> <p>Maria Sekatskaya. <i>Reductionism in the Philosophy of Science</i></p>	<p>Philosophy of Physics (3)</p> <p><i>Chair: Iulian Toader</i></p> <p>This speaker will join the session remotely (via Zoom): Andrea Oldofredi. <i>Relational Quantum Mechanics and the PBR Theorem: A Peaceful Coexistence</i></p> <p>Markus Frembs and Frida Trotter. <i>Categorically classical: Lessons from no-go</i></p>	<p>Science and Values (2)</p> <p><i>Chair: Anna Leuschner</i></p> <p>Paul Hoyningen-Huene. <i>Objectivity, the Ideal of Value-Free Science, and Rudner's Objection</i></p> <p>Michele Luchetti and Matteo De Benedetto. <i>A dynamic model of theory choice: epistemic values as environmental niches</i></p>

	Inigo Ongay de Felipe. What is the role of Philosophy of Biology with regard to the Extended Evolutionary Synthesis and why should it matter (moved from Evolution)	Jukola. <i>Bodies of Evidence – Determining the Cause of Death and the Problem of Underdetermination</i>	Bourgeois-Gironde. <i>What Might We Learn About Shared Agency Thanks to Game Theory?</i>	<i>reasoning: a necessary paradigm shift?</i>	<i>and the Problem of Mental Properties</i> Matej Kohar. <i>The Scaling-up Problem from a Mechanistic Point of View</i>	<i>theorems in quantum foundations</i> Michael te Vrugt, Gyula I Tóth and Raphael Wittkowski. <i>Irreversibility in statistical mechanics: from quantum mechanics to soft matter theory</i>	Eoin Perry. <i>Representational Risk and the Representation of Statistical Evidence</i>
16:30-17:00	Break – H3005						
17:00-18:30 Plenary	H0104 Springer Lecture Brigitte Falkenburg: “Data, Theories and Probability in Physics” – Chair: Vera Hoffmann-Kolss						
18:30-18:45	Closing remarks						