	Parallel session 1 Room MR030	Parallel session 2 Room M1150	Parallel session 3 Room M1160	Parallel session 4 Room M1170	Parallel session 5 Room MR160	Parallel session 6 Room MR170
September 10						
8h-18h	Pre-conference workshop (Room M1150)					
17h-19h	Graduate Workshop (Room M1140)					

September 11						
9h15	Opening words (Auditorium MR080)					
9h30-10h30	Plenary Lecture 1:Tarja Knuuttila: If Models are artefacts, why not treat them as such? (Auditorium MR080)					
10h30	*Refreshment (Surface 2 - 5)*					
		High Energy Physics -- Sebastian de Haro	**S: Biological Individuality and the Metaphysics of Mammalian Reproduction**	**S: Inductive Inference and Machine Learning: Old and New**	**The Organization of Science** -- Julie Jebeile	
11h		Martin King: Explanation and Effective Field Theories	Arantza Etxeberria Agiriano: The pregnant female as a transient reproductive individual	Rianne de Heide and Tom Sterkenburg: On the truth-convergence of open-minded Bayesianism	Jamie Shaw: Feyerabend's Well-Ordered Science: How an Anarchist Distributes Funds	
11h30		Forian J. Boge and Christian Zeitnitz: Simulation-Modeling at the LHC: Semi-Hierarchies and Networks	Suki Finn: The mereotopology of pregnancy	Simon M. Huttegger and Marta Sznajder: Inductive Logic without Categories	Line Edslev Andersen and K. Brad Wray: Scientific Journals Should Fight Honest Mistakes, Not Misconduct	
12h		Cristin Chall: Abandoning Models: When Non-Empirical Theory Assessment Ends	Alexander Geddes: Pregnancy, Parthood and Proper Overlap	Daniel A. Herrmann: PAC Learning and Occam's Razor	Baptiste Bedessem and Stéphanie Ruhpy: Citizen science: a challenge to scientific objectivity?	
12h30		Marie Gueguen: Alternatives to Robustness	Elselijn Kingma: Pregnancy and Biological Individuality	Jan-Willem Romeijn: Data-driven clustering methods	Jaana Eigi: Science, public participation and democracy	
13h-14h	*Lunch*					
	Perspectivalism and Consensus -- Dana Tulodziecki	**S: Black Hole Thermodynamics**	**S: Biases in the Sciences and Science-based Policy**	**Causation** -- Simon Huttegger	**Disagreement, Computing** -- Nicolas Fillion	
14h30	Zdenka Brzovic: Natural Kinds, Mind-Dependence, and the A-Word	Erik Curiel: The Trans-Planckian Problem and the Equivalence Principle	Lorenzo Casini & Jan Sprenger: Meta-analyses and Conflicts of Interest	David Kinney: Algorithmic Causal Modeling as a More General Model of Inductive Inference	Karim Bschir: Perspectivism in current epigenetics	
15h	Leon-Philip Schäfer: Mind-Independence as the Metaphysical Core Thesis of Scientific and Moral Realism	John Dougherty: Black hole as black boxes Patricia Palacios: On the Universality of Hawking Radiation	Bennett Holman & William Berger, Aaron Bramson, Patrick Grim and Daniel J. Singer: Bias without Corruption: An analysis of the influence of Big Sugar on dietary research	Sander Beckers: Formalizing Mental Causation	Robert Mróz and Mariusz Maziarz: Making use of inconsistent empirical literature	
15h30	Joe Dewhurst: Perspectival realism about mechanistic functions	Carina Prunkl: The Role of Information in Black Hole Thermodynamics	Saana Jukola: Political bias in nutrition guidelines - the case of sustainability, standards of evidence, and concepts of health			
16h	K. Brad Wray: Setting Limits to Chang's Pluralism	Katie Robertson: The connection between black hole thermodynamics and ordinary thermal physics: a crisis of identity	Ju¨rgen Landes & Barbara Osimani: On the Assessed Strength of Agents' Bias			
16h30	*Refreshment (Surface 2 - 5)*					
17h	**Idealization, representation** -- Julian Reiss	**S: Black Hole Philosophy and String Theory**	**S: Causal Complexity in Functional Biology and Medicine**	**Mental States** -- NN	**S: New Theories of Probability**	**Ethical Issues in the Sciences** -- Stéphanie Ruphy
	Martin Zach: Revisiting abstraction and idealization in molecular biology	David Wallace: Why black hole information loss is paradoxical	Anya Plutynski: What is Complexity? Cancer as a Case Study	Marko Jurjako: Are intentions necessary for self-deception? Exploring the limits of the predictive processing paradigm	Davide Rizza: Desiderata for an alternative probability theory	Tobias Henschen: How strong is the argument from inductive risk?
17h30	Philippe Verreault-Julien: Inferentialism and representation: chasing factivity	Jeroen van Dongen and Manus Visser: History and Philosophy of the Black Hole Information Paradox	Lauren Ross: Distinguishing Causal Structures: Mechanisms, Pathways, and Cascades	Nir Fresco and Itzhak Aharon: BaBayesianism: On the Origins of Bayesian Hypotheses	Nicholas DiBella: Qualitative Probability and Infinitesimal Probability	Joao Pinheiro: Naturally, Moral Parametricism
18h	Colin McCullough-Benner: Data-driven science and the applicability of mathematics	Sebastian De Haro and Manus Visser: A Conceptual Analysis of Black Hole Entropy in String Theory	William Bechtel: Managing Complexity of Causal Networks: From Hairballs to Mechanisms	Raoul Gervais: Similarity of performance as a source of evidence for hypothesis generation and evaluation	Matthew W. Parker: On Norton's Infinite Lottery Logic	
18h30		Nick Huggett: Matter in String Theory Black Holes	Sara Green: Size constraints and biological patterns: How-possibly reasoning in biology	Navia Rivas de Castro: Mathematical explanation		
19h30	*Welcome reception : Restaurant "Les Vieux Grenadiers"*					

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September 12						
9h	**Integr. Hist, Phil., and Soc Stud.of Science** -- Tim Lewens Charles Pence: From the biological world to statistical theories: nineteenth-century lessons for twenty-first-century philosophy of biology	**S: Model Independence in High Energy Physics and Beyond** Michael Krämer: From supersymmetry to simplified models	**Genetics** -- Stavros Ioannidis Oriol Vidal and David Teira: Has classical genetics been practically reduced?	**S: New Perspectives on Scientific Objectivity** Mattia Andreoletti: Replicability crisis in science: statistical versus social reforms	**S: Philosophy in Science: Can Philosophers Contribute to Science, and If So, How?** Maël Lemoine & Thomas Pradeu: Philosophy in Science: Definition and Boundaries	
9h30	Jeroen Van Bouwel: How could citizen engagement help in dealing with values in science? Discussing the case of GDP and citizen economics.	Philip Bechtle: Model Independence of LHC Results: A review of different approaches from Supersymmetry searches to Higgs boson physics	Robert Meunier: Revisiting instruments in biology from a project knowledge perspective: A comparative look at two research projects in behavioral genetics	Noah van Dongen and Michal Sikorski: Objectivity for the Research Worker ; Inkeri Koskinen: Objectivity in contexts	Lucie Laplane: Experimental Work Can Help Do Better Philosophy in Science	
10h	Jan Potters: Measurement and Identity: On the History of the Electron's Charge-to-Mass Ratio	Michael Stöltzner: Are Standard Model Effective Field Theories Models?	Gaëlle Pontarotti: Extended heredity in biomedicine : perspectives and challenges	Emanuele Ratti: Opacity and Objectivity in Machine Learning	Tim Lewens: Niche-Construction: A Case of History and Philosophy in Biological Practice	
10h30	Marij Van Strien: The Revolutionary Rhetoric of Debates on Bohm's Interpretation of Quantum Mechanics and Kuhnian Philosophy of Science, 1950s-1960s	Michela Massimi: Model-independence for modelling across scales	Tero Ijäs and Rami Koskinen: Exploring biological possibility through synthetic biology	Julian Reiss: Robust Scientific Institutions as a Solution to Fact/Value Entanglement	Ralph Adolphs: A Case Study from the Science of Emotion	
11h	*Refreshment (Surface 2 - 5)*					
11h30	**S: Modeling Consensus and Consensus Models** Julie Jebeile: Consensus and independence in climate modeling	**Cosmology and Spacetime** -- Nick Huggett Peter Evans and Sam Baron: What's So Spatial About Time Anyway?	**Evolution and Natural Selection 1** -- Daniel Kostic Azita Chellappoo: What Can Cultural Selection Explain?	**Confirmation** -- Jan Sprenger Stefan Lukits: Asymmetry and the Geometry of Reason	**Scientific Practice** -- Sara Green Daniel Auker-Howlett: Evaluating 'Evaluating Evidence of Mechanisms in Medicine': a systematic and philosophical review	**Philosophy of Economics** -- David Teira Paul Hoyningen-Huene: A constructive critique of Hausman's "standard model" of choice
12h	Mathias Frisch: Model consensus, dissensus, and uncertainty	Kian Salimkhani and Niels Linnemann: The Constructivist's Programme and the Problem of Pregeometry	Adrian Stencel: Disconnecting commensurability of fitness from natural selection	Juergen Landes, Soroush Rafiee Rad and Jon Williamson: Progress on the Entropy-Limit Conjecture	Samuel Fletcher: The Role of Replication in Psychological Science	Lukas Beck: On the Dispositional Conception of Preferences
12h30	Eva Barlösius: How do scientists refer to knowledge consensus in research proposals?	Sean Gryb: Ambiguity and symmetry in the Past Hypothesis	Grant Ramsey and Hugh Desmond: Phylogenetic Competition: Defining the Selective Environment	Jonah N. Schupbach and David H. Glass: Conjunctive Explanations	Stefano Canali: The Exposome as a Postgenomic Repertoire: Exploring Scientific Change in Contemporary Epidemiology	Robert Northcott: Prediction markets and extrapolation
13h-14h	*Lunch*					
13h30	Woman's Caucus Lunch (Room M1170)					
14h30-15h30	Posters (Room M1193)					
15h30-16h30	Plenary Lecture 2: Heather Douglas (Women's Caucus 2019): Contours of Science and Justice (Auditorium MR080)					
16h30	*Refreshment (Surface 2 - 5)*					
17h-18h30	Junior scholar event & meet the Editors (Room M1140)					
19h30	*Conference dinner : Restaurant Musée de la Croix-Rouge*					

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September 13						
	Realism -- **K. Brad Wray**	**Algebraic Field Theory / Statistics** -- **Elena Castellani**	**Evolution and Natural Selection 2** -- **Miles McLeod**	**S: Foundational Issues in Climate Science and Climate Modelling**	**S: Explanation in Psychiatry: From Pluralism to Integration - and Back again?**	**Robustness and Causation** -- **Patricia Palacios**
9h	Damian Luty: Morals from minimal structural essentialism in philosophy of spacetime	Márton Gömöri: A Causal Account of Initial Distributions	Nicola Bertoldi: How Darwinian and how general is "generalised Darwinism"? Economic change, evolution and R. A. Fisher's "Fundamental Theorem of Natural Selection"	Margherita Harris: Confidence: a new dimension of scientific knowledge?	Lena Kästner: Network models and their variables	Klodian Coko: Robustness, Invariance to Perturbations, and Multiple Determination
9h30	Bobby Vos: Science, Abstraction and the Quest for Lost Reality	James Wills: Gibbs' solution of Gibbs' paradox	Bengt Autzen: Diagnostic Parsimony: Ockham meets Bayes	Vincent Lam: Structural instability and climate modelling	Markus Eronen: Interventionism and within-person causes in psychiatric network models	Daniel Kostic: Non-causal understanding via spatially embedded networks in the brain
10h	Ludwig Fahrbach: Is the No-miracles argument an Inference to the Best Explanation?	Gabor Hofer-Szabo: Commutativity, simultaneous measurability, and contextuality in the Kochen-Specker arguments	Cristina Villegas and Grant Ramsey: Developmental Channeling and the Causal Structure of Evolutionary Theory	Claus Beisbart: On right solutions and right equations. The relationship between verification and validation of climate simulations	Matteo Colombo: Computational phenotypes, dimensional explanation and integration in psychiatry. The case of alcoholism	Enno Fischer: Causation, Intervention, and Responsibility
10h30	Tiziano Ferrando: The Ontology of Patterns	Tracy Lupher: The Case for Bidualism in the Interpretation of Algebraic Quantum Field Theory	Paternotte Cedric and Jaffro Eva: Unusual Cooperation		Josephine Lenssen: Perspectival mosaic unity for explanations in psychiatry	Stavros Ioannidis: Mechanisms as Causal Pathways
11h	*Refreshment (Surface 2 - 5)*					
	Time and Regularity -- **Andreas Hüttemann**	**Interpretation of Quantum Mechanics** -- **Vincent Lam**	**Information and Functions** -- **Maël Lemoine**	**Inference and Belief** -- **Claus Beisbart**	**Social Groups** -- **Catherine Herfeld**	**Modeling and Decision Making** -- NN
11h30	Lucy James: Time and Physical Modality: Problems with Callender's Best Systems Project	Matthias Egg: Scientific Metaphysics and the Manifest Image	Antonios Basoukos: Information, unreal genes and biological function	Seamus Bradley: Aggregating belief models: a unifying theory of aggregation	Jack Wright: Hierarchy in research communities: the case of economics	Christopher Clarke: Can Rational Expectation Models Coherently Guide Policy?
12h	Victor Gijsbers: Why the world is regular	Andrea Oldofredi: An Internal Realist Interpretation of the Primitive Ontology Programme	María Ferreira Ruiz: A dilemma for informational parity	Samir Okasha and Karim Thebault: Is there a Bayesian justification of hypothetico-deductive inference?	Vlasta Sikimic and Kaja Damnjanovic: Empirically calibrated models of group structures in contemporary experimental biology	Joe Roussos, Roman Frigg and Richard Bradley: Making Confident Decisions with Model Ensembles
12h30	Cristian López: Time symmetry in three dimensions	Eugene Chua: A Real Problem for Unreal Waves: is Bohmian Mechanics Indeterministic?	Guglielmo Militello: Structural and organisational conditions for being a machine	Alexander Gebharter and Christian J. Feldbacher-Escamilla: Modeling Creative Abduction Bayes Net Style	Edoardo Datteri: Robots as surrogates for intervention	Benedikt Knüsel: Understanding the Climate System and the Dilemma of Data-Driven Models
13h-14h	*Lunch*					
13h	Steering committee (Room M1130)					
14h30	Associate Editor committee (Room M1130)					
	S: Schurz' Meta-Inductive Approach to Hume's Problem	**S: Structure and Composition in Chemistry**	**S: Is Organismic Agency a Mere Heuristic?**	**Mathematics and Formal Methods** -- **Seamus Bradley**	**Interdisciplinarity and Technology** -- **Chiara Liscandra**	
14h30	Gerhard Schurz: Introductory Comments ; Stathis Psillos: Is Hume's problem really solved?	Vanessa A. Seifert: The Chemical Bond as a Real Pattern ; Justin Price The Chemical Bond: Model Transfer and Conceptual Pressure in Chemistry	Philippe Huneman: Agential and extremal-state explanations: what should the indispensability of agency mean?	Annemarie Borg, Daniel Frey, Dunja Seselja and Christian Strasser: Modeling Bias and Deception in Scientific Inquiry	Annamaria Carusi: Artificial Intelligence and In/scrutability	
15h	Tomoji Shogenji: Schurz on Induction: Reliable or Only Optimal	Sarah Naomi Hijmans: Criteria for elementhood in nineteenth-century chemistry: Aluminium, Chlorine and Niobium	Anne Sophie Meincke: Bio-Agency and Process Ontology	Nicolas Fillion: Concepts of approximate solutions and the finite element method	Dingmar van Eck, Erik Weber and Julie Mennes: On the Structure and Epistemic Value of Function Ascriptions in Biology and Engineering Sciences	
15h30	Igor Douven: Evolutionary computing as an alternative to meta-induction	Karoliina Pulkkinen: Values and the Periodic System	Denis M. Walsh: A matter of priorities: Evolution, biology, and agency	Iulian Toader: Why the Stone-von Neumann theorem is not a categoricity result	Chia-Hua Lin: Competing Scientific Traditions Integrated Through Interdisciplinary Development of Mathematical Constructs as Epistemic Templates	
16h	Gerhard Schurz: Response to the Critics		Hugh Desmond: Agency and Environmental Novelty		Miles Macleod: Towards a theory of interdisciplinarity	
16h30	*Refreshment (Surface 2 - 5)*					
17h-18h	Plenary Lecture 3: Francesco Guala: Bad arguments against naturalism in the philosophy of social science (Auditorium MR080)					
18h-19h	General assembly (Auditorium MR080)					

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September 14						
	Prediction and Laws -- Lorenzo Casini	**Quantum Gravity and Cosmology** -- Sam Fletcher	**Microbiology** -- Thomas Pradeu	**S: Knowledge Transfer ad its Context**	**S: Towards a Philosophy of Sustainability Science**	
9h	Pekka Syrjänen: Some issues in the prediction vs accommodation debate	Jonathan Bain: Spacetime as a Quantum Error-Correcting Code?	Predrag Šustar and Vito Balorda: Explanation in Molecular Biology: The Explanatory Force of the Details	Catherine Herfeld: Crossing Domains: The Role of the Translator in the Spread of Scientific Innovations	Evelyn Brister: Philosophers' Contributions to Sustainability Science	
9h30	Dana Tulodziecki: Novel prediction, genuine realist success, and historical counterexamples	Niels Linnemann: Quantisation as a method of discovery: the nature and prospects of quantisation approaches to quantum gravity	Gregor Greslehner and Maël Lemoine: How to understand causal claims about changing microbiota in an aging host?	Carlo Martini & Judith Favereau: Here, There, Everywhere: Policy Validity of Randomized Experiments in Development Economics Anjan Chakravartty: Scientific (Dis)Agreement: Knowledge Transfer Between Scientific and Social Contexts	Michiru Nagatsu and Miles MacLeod: Challenges in integrating social, economic and ecological values in fisheries management models	
10h	Alfonso García Lapeña: Scientific Laws and Closeness to the Truth	Jamee Elder: Black Hole Coalescence: Models and Measurement	Cécilia Bognon: Metabolism, biological identity and the challenges from microbiome research: a historical-philosophical approach	Andrea Loettgers and Tarja Knuuttila: Analogies and the templates in model transfer: the statistical physics of associative memory	Henrik Thorén: Interdisciplinarity and Integration in Integrated Assessment Modelling	
10h30	Andreas Hüttemann: How Laws Explain			Chiara Lisciandra and Michiru Nagatsu: Beliefs & Beliefs: A Formal and Conceptual Divide Between Economics and Psychology	Milutin Stojanovic: Experiments in sustainability science: ecological management and phenomenological model building	
11h	*Refreshment (Surface 2 - 5)*					
11h-12h	Posters (Room M1193)					
12h-13h	Plenary Lecture 4: Henk De Regt Understanding Scientific Understanding (Auditorium MR080)					
13h-	*Lunch*					
13h-	*Visit to CERN (registration required on their website)*					