EPSA19 **Programme**

SEPTEMBER 10

	ROOM MR030	ROOM M1150	ROOM M1160	ROOM M1170	ROOM MR160	ROOM MR170	
8:00–18:00		Pre-conference workshop					8:00–18:00
17:00–19:00	Graduate Workshop (Room M1140)				Graduate Workshop (Room M1140)		17:00–19:00

SEPTEMBER 11

9:15	Opening words (Auditorium MR080)				Opening words (Auditorium MR080)		9:15
9:30–10:30	Plenary Lecture 1:Tarja Knuuttila: If Models are artefacts, why not treat them as such? (Auditorium MR080)				Plenary Lecture 1:Tarja Knuuttila: If Models are artefacts, why not treat them as such? (Auditorium MR080)		9:30–10:30
10:30	REFRESHMENTS (SURFACE 2–5)				REFRESHMENTS (SURFACE 2–5)		10:30
		High Energy Physics	**S: Biological Individuality and the Metaphysics of Mammalian Reproduction**	**S: Inductive Inference and Machine Learning: Old and New**	**The Organization of Science**		
11:00		Martin King: Explanation and Effective Field Theories	Arantza Etxeberria Agiri-ano: 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		11:00
11:30		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		11:30
12:00		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?		12:00
12:30		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		12:30
13:00	LUNCH				LUNCH		13:00

EPSA19 **Programme**

	ROOM MR030	ROOM M1150	ROOM M1160	ROOM M1170	ROOM MR160	ROOM MR170	
	Perspectivalism and Consensus	**S: Black Hole Thermodynamics**	**S: Biases in the Sciences and Science-based Policy**	**Causation**	**Disagreement, Computing**		
14:30	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		14:30
15:00	Leon-Philip Schäfer: Mind-Independence as the Metaphysical Core Thesis of Scientific and Moral Realism	John Dougherty: Black hole as black boxes	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		15:00
15:30	Joe Dewhurst: Perspectival realism about mechanistic functions	Patricia Palacios: On the Universality of Hawking Radiation; 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		Philippos Papayannopoulos: Computing and Modelling: Analog vs. Analogue		15:30
16:00	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	Jürgen Landes & Barbara Osimani: On the Assessed Strength of Agents' Bias				16:00
16:30	REFRESHMENTS (SURFACE 2 – 5)				REFRESHMENTS (SURFACE 2 – 5)		16:30
	Idealization, representation	**S: Black Hole Philosophy and String Theory**	**S: Causal Complexity in Functional Biology and Medicine**	**Mental States**	**S: New Theories of Probability**	**Ethical Issues in the Sciences**	
17:00	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	Anke Bueter: Epistemic Injustice and Psychiatric Classification	17:00
17:30	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	Leon Horsten: Sets and Probability	Tobias Henschen: How strong is the argument from inductive risk?	17:30
18:00	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	Nicholas DiBella: Qualitative Probability and Infinitesimal Probability	Joao Pinheiro: Naturally, Moral Parametricism	18:00
18:30		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	Matthew W. Parker: On Norton's Infinite Lottery Logic		18:30
19:30	WELCOME RECEPTION: RESTAURANT "LES VIEUX GRENADIERS"				WELCOME RECEPTION: RESTAURANT "LES VIEUX GRENADIERS"		19:30

EPSA19 **Programme**

SEPTEMBER 12

	ROOM MR030	ROOM M1150	ROOM M1160	ROOM M1170	ROOM MR160	ROOM MR170	
	Integr. Hist, Phil., and Soc Stud.of Science	**S: Model Independence in High Energy Physics and Beyond**	**Genetics**	**S: New Perspectives on Scientific Objectivity**	**S: Philosophy in Science: Can Philosophers Contribute to Science, and If So, How?**		
9:00	Charles Pence: From the biological world to statistical theories: nineteenth-century lessons for twenty-first-century philosophy of biology	Michael Krämer: From supersymmetry to simplified models	Oriol Vidal and David Teira: Has classical genetics been practically reduced?	Mattia Andreoletti: Replicability crisis in science: statistical versus social reforms	Maël Lemoine & Thomas Pradeu: Philosophy in Science: Definition and Boundaries		9:00
9:30	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		9:30
10:00	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		10:00
10:30	Marij Van Strien: The Revolutionary Rhetoric of Debates on Bohm's Interpretation of Quantum Mechanics and Kuhnian Philosophy of Science, 1950s-1960sw	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		10:30
11:00	REFRESHMENTS (SURFACE 2 – 5)				REFRESHMENTS (SURFACE 2 – 5)		11:00
	S: Modeling Consensus and Consensus Models	**Cosmology and Spacetime**	**Evolution and Natural Selection 1**	**Confirmation**	**Scientific Practice**	**Philosophy of Economics**	
11:30	Julie Jebeile: Consensus and independence in climate modeling	Peter Evans and Sam Baron: What's So Spatial About Time Anyway?	Azita Chellappoo: What Can Cultural Selection Explain?	Stefan Lukits: Asymmetry and the Geometry of Reason	Daniel Auker-Howlett: Evaluating 'Evaluating Evidence of Mechanisms in Medicine': a systematic and philosophical review	Paul Hoyningen-Huene: A constructive critique of Hausman's "standard model" of choice	11:30
12:00	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	12:00
12:30	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	Johan 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	12:30
13:00	LUNCH				LUNCH		13:00

EPSA19 **Programme**

13:30	Woman's Caucus Lunch (Room M1170)	13:30
14:30 – 15:30	Posters (Room M1193)	14:30 – 15:30
15:30 – 16:30	Plenary Lecture 2: Heather Douglas (Women's Caucus 2019): Contours of Science and Justice (Auditorium MR080)	15:30 – 16:30
16:30	REFRESHMENTS (SURFACE 2 – 5)	16:30
17:00 – 18:30	Young scholars event & meet the Editors (Room M1140)	17:00 – 18:30
19:30	CONFERENCE DINNER: RESTAURANT MUSEE DE LA CROIX-ROUGE	19:30

13:30	Woman's Caucus Lunch (Room M1170)	13:30
14:30 – 15:30	Posters (Room M1193)	14:30 – 15:30
15:30 – 16:30	Plenary Lecture 2: Heather Douglas (Women's Caucus 2019): Contours of Science and Justice (Auditorium MR080)	15:30 – 16:30
16:30	REFRESHMENTS (SURFACE 2 – 5)	16:30
17:00 – 18:30	Young scholars event & meet the Editors (Room M1140)	17:00 – 18:30
19:30	CONFERENCE DINNER: RESTAURANT MUSEE DE LA CROIX-ROUGE	19:30

SEPTEMBER 13

	ROOM MR030	ROOM M1150	ROOM M1160	ROOM M1170	ROOM MR160	ROOM MR170	
	Realism	**Algebraic Field Theory / Statistics**	**Evolution and Natural Selection 2**	**S: Foundational Issues in Climate Science and Climate Modelling**	**S: Explanation in Psychiatry: From Pluralism to Integration - and Back again?**	**Robustness and Causation**	
9:00	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	9:00
9:30	Bobby Vos: Science, Abstraction and the Quest for Lost Reality	James Wills: Gibbs' solution of Gibbs' paradox	Bengt Autzen: Diagnostic Parsimony: Ockham meets Bayesin behavioral genetics	Vincent Lam: Structural instability and climate modelling in contexts	Markus Eronen: Interventionism and within-person causes in psychiatric network models	Daniel Kostic: Non-causal understanding via spatially embedded networks in the brain	9:30
10:00	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	10:00
10:30	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	Wendy S. Parker: Risk, storylines and the causes of extreme weather events	Josephine Lenssen: Perspectival mosaic unity for explanations in psychiatry	Stavros Ioannidis: Mechanisms as Causal Pathways	10:30
11:00	REFRESHMENTS (SURFACE 2 – 5)				REFRESHMENTS (SURFACE 2 – 5)		

EPSA19 **Programme**

	ROOM MR030	ROOM M1150	ROOM M1160	ROOM M1170	ROOM MR160	ROOM MR170	
	Time and Regularity	**Interpretation of Quantum Mechanics**	**Information and Functions**	**Inference and Belief**	**Social Groups**	**Modeling and Decision Making**	
11:30	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?	11:30
12:00	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	12:00
12:30	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	12:30
13:00	LUNCH				LUNCH		13:00
13:00	Steering committee (Room M1130)				Steering committee (Room M1130)		13:00
14:30	Associate Editor committee (Room M1130)				Associate Editor committee (Room M1130)		14:30
	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**	**Interdisciplinarity and Technology**		
14:30	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		14:30
15:00	Tomoji Shogenji: Schurz on Induction: Reliable or Only Optimal	Geoffrey Blumenthal: Contrasting research practices but stable outcomes: the case of nitrous acid 1772-88	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		15:00
15:30	Igor Douven: Evolutionary computing as an alternative to meta-induction	Sarah Naomi Hijmans: Criteria for elementhood in nineteenth-century chemistry: Aluminium, Chlorine and Niobium	Denis M. Walsh: A matter of priorities: Evolution, biology, and agency	Georg Schiemer: Two ways to think about (implicit) structure	Chia-Hua Lin: Competing Scientific Traditions Integrated Through Interdisciplinary Development of Mathematical Constructs as Epistemic Templates		15:30
16:00	Gerhard Schurz: Response to the Critics	Karoliina Pulkkinen: Values and the Periodic System	Hugh Desmond: Agency and Environmental Novelty	Iulian Toader: Why the Stone-von Neumann theorem is not a categoricity result	Miles Macleod: Towards a theory of interdisciplinarity		16:00
16:30	REFRESHMENTS (SURFACE 2-5)				REFRESHMENTS (SURFACE 2-5)		16:30
17:00	Plenary Lecture 3: Francesco Guala: Bad arguments against naturalism in the philosophy of social science (Auditorium MR080)				Plenary Lecture 3: Francesco Guala: Bad arguments against naturalism in the philosophy of social science (Auditorium MR080)		17:00
18:00							18:00
19:00	General assembly (Auditorium MR080)				General assembly (Auditorium MR080)		19:00

EPSA19 **Programme**

SEPTEMBER 14

	ROOM MR030	ROOM M1150	ROOM M1160	ROOM M1170	ROOM MR160	ROOM MR170	
	Prediction and Laws	**Quantum Gravity and Cosmology**	**Microbiology**	**S: Knowledge Transfer ad its Context**	**S: Towards a Philosophy of Sustainability Science**		
9:00	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		9:00
9:30	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	Michiru Nagatsu and Miles MacLeod: Challenges in integrating social, economic and ecological values in fisheries management models		9:30
10:00	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	Anjan Chakravartty: Scientific (Dis)Agreement: Knowledge Transfer Between Scientific and Social Contexts	Henrik Thorén: Interdisciplinarity and Integration in Integrated Assessment Modelling ; Milutin Stojanovic: Experiments in sustainability science: ecological management and phenomenological model building		10:00
10:30	Andreas Hüttemann: How Laws Explain			Andrea Loettgers and Tarja Knuuttila: Analogies and the templates in model transfer: the statistical physics of associative memory			10:30
11:00				Chiara Lisciandra and Michiru Nagatsu: Beliefs & Beliefs: A Formal and Conceptual Divide Between Economics and Psychology			11:00
11:00	REFRESHMENTS (SURFACE 2 – 5)				REFRESHMENTS (SURFACE 2 – 5)		11:00
11:30	Posters (Room M1193))				Posters (Room M1193))		11:30
12:00 – 13:00	Plenary Lecture 4: Henk De Regt Understanding Scientific Understanding (Auditorium MR080)				Plenary Lecture 4: Henk De Regt Understanding Scientific Understanding (Auditorium MR080)		12:00 – 13:00
13:00	LUNCH				LUNCH		13:00
13:00	VISIT TO CERN (REGISTRATION REQUIRED ON THEIR WEBSITE)				VISIT TO CERN (REGISTRATION REQUIRED ON THEIR WEBSITE)		13:00