

CV Mauro Dorato

CURRENT OCCUPATION

Full Professor for the Philosophy of Science at the Department of Philosophy of the University of Rome 3 since 01.10.2005

EDUCATION

The Johns Hopkins University

- Ph. D. (May 1992)
- Diploma from the Center for History and Philosophy of Science (1989)
- M.A. in Philosophy (1988)

The University of Rome “La Sapienza”

- Laurea (i.e., BS+MS) in Mathematics (27 Jan. 1993)
- Laurea (i.e., BA+MA) in Philosophy (6 Dec. 1982)

FELLOWSHIPS AND RESEARCH ACTIVITIES AS VISITING SCHOLAR

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| April-June 2000, | Visiting scholar at the Edelstein center for history and philosophy of science, the Hebrew University of Jerusalem (cancelled due to COVID) |
| Summer 2015 | Visiting scholar at the Max Planck Institut für Wissenschaftsgeschichte for a project on the history of cosmology |
| Summer 2014 | Visiting Scholar at the Centre for Time, University of Sydney |
| Fall 2013 | Offer for a Visiting Fellowship Center for History and Philosophy of Science of the University of Pittsburgh, turned down |
| Summer 2012 | Visiting professor Department of Philosophy University of Bielefeld |
| 1995-1997 | Post-doc scholar at the University of Padua |
| Fall 1995 | Visiting scholar at the Center for History and Philosophy of Science of the University of Pittsburgh. |
| 1986-87: | Fullbright scholar at the Johns Hopkins University, Baltimore, MD. |

MEMBERSHIP IN INTERNATIONAL SOCIETIES

Since 2008 Corresponding member of the *Academie Internationale des Philosophie des Sciences*.
Nominated ordinary member in 2011

Since 2010 Member of the Academia Europaea (The Academy of Europe)

Since 2020 Fellow of the John Bell Institute for the Foundations of Physics (JBI)

Since April 30 2011 until June 2014, President of the Italian Society of Logic and Philosophy of Science (SILFS)

Services to the profession

- Former member of the steering committee of the European Philosophy of Science Association (created in 2007). <http://www.ucm.es/info/epsa07/>
- Co-chair of the Program Committee for the first conference of the European Philosophy of Science Association, to be held in Madrid in November 9-11 2007
<http://www.ucm.es/info/epsa07/>
- Member of the steering committee of the International Society for the study of spacetime (Concordia University, Montreal) <http://www.spacetimesociety.org/>
- Member of the Program Committee for the series of international conferences. The ontology of spacetime (Concordia University, Montreal)
- From 2008 to 2011 member of the steering committee of the Italian Society of Logic and Philosophy of Science (SILFS)

EDITORIAL ACTIVITIES

Deputy editor of the *European Journal for Philosophy of Science*, (EJPS), Springer,

From 2012 till 2016 **co-editor** of the same journal with Carl Hoefer (Barcelona)

Member of the editorial board in

Axiomates

Epistemologia

Rivista di Filosofia

Colloquium Philosophicum

Epistemologia
Reti, Saperi, linguaggi. Italian journal of cognitive sciences
Epistemic Studies (directed by S. Hartmann, M. Esfeld)

ACTIVITY AS PEER REVIEWER FOR SCIENTIFIC JOURNALS:

Australasian Journal of Philosophy
British Journal for the Philosophy of Science,
Dialectica,
Epistemologia,
Erkenntnis
European Journal for Analytic Philosophy,
Foundations of Physics
Foundations of Science,
International Studies for the Philosophy of Science,
Mind
New York academy of science
Philosophical Transactions
Philosophy of Science,
Studies in History and Philosophy of Modern Physics,
Studies in History and Philosophy of Science
Synthese
Theoria.
The Philosophical Quarterly

ACTIVITY AS PEER REVIEWER FOR PUBLISHING HOUSES

Elsevier, Oxford University Press, Routledge

ACTIVITY AS EXPERT FOR REVIEWING APPLICATION GRANTS

British Research Council AHRS,
Fund for Scientific Research-FNRS (**F.R.S.-FNRS**) Belgium
Israeli Science Foundation (ISF)
National Science Foundation (USA),
Netherlands Organisation for Scientific Research (NOW)
Swiss National Science Foundation,
The Dutch Research Council)

Member of expert for the European Science Foundations
Reviewer for the National Agency for the Evaluation of the University Research

SERVICES TO THE PROFESSION

2012-2015 Director of the PH.D joint program between Roma3 University and Tor Vergata University

2018 Member of the committee for the assessment of the didactic and scientific activity of the University

1/11/2018, Delegate of the Rector for the University library system

DIRECTION OF GRANT PROJECTS

2000 until 2019

Participant in various research projects financed by the Italian Ministry of Public Education

2014-2017

Director of the Local Research Team in the research project Models and Inference in science (Units belonging to the team University of Rome Roma 3, University of Milan La Bicocca, University of Bologna

2017-2020

Director of the Local Research Team in the research unit The Manifest Image and the Scientific Image

TALKS AND INVITATIONS TO INTERNATIONAL SYMPOSIA AND CONGRESSES

2021.

February: zoom meeting with the Hebrew University: Bohr's holistic philosophy of quantum mechanics

With Rossanese: International conference on the ontology of quantum physics.

With Morganti 25th June: zoom International conference on relational quantum mechanics

2020

30 /11 Philosophy of Physics Seminar, Faculty of Philosophy, Oxford

1/12 Conference at the Corpus Christi College

1/05. General lecture Hebrew University, Cancelled due to COVIS

1/07 Presentazione Disinformazione scientifica e democrazia, Università di Trento

13/11 Dibattito con Carlo Rovelli per la giornata mondiale di Filosofia. *Fisica quantistica e realtà*

21/11 Zoom Conference for the Edelstein Center at the Hebrew University of Jerusalem

2019

9 April Einstein and Bergson, Physicist Philosopher, L'Aquila

19-22 May, Experiencing Reality Directly , The Hebrew University

18-22 June Quantum limits of knowledge

2-5 September, Time after time Villa Maraini, Roma

11-12 September Biennial meeting of EPSA (accepted abstract)

18-22 June Quantum limits of knowledge, Copenhagen

2-5 September, Time after time Villa Maraini, Roma

11-12 September Biennial meeting of EPSA, Geneva (accepted abstract)

2018

1 May, Memorial Lecture in honor of Itamar Pitowsky, Hebrew University of Jerusalem

17-18 May Philosophy of Time: A View from the Past, University of Milan

11-13 June, Cracow, Modality in Physics

18–20 June 2018. International Society for the study of time, Yonsei University, Seoul/Incheon, South Korea.

12-13-14 July, Budapest, Central European university

28-29-30 August, Summer School at the Swiss Institute of Culture, villa Maraini, Roma

2017

Triennial congress of the Italian Society for Logic and Philosophy of science, University of Bologna,
June the 23rd

Realism and Quantum Mechanics, University of Leeds, 13 September

Bohr's philosophy of science, IMERA, Marseille, 25 September

2016

4, 7 e 8 March Three Lectures at the Universidad Metropolitana de Mexico (UAM) on the philosophy
of time

8 March Lecture at the Universidad Nacional Autonoma de Mexico (UNAM) on Realism and
instrumentalism on the wave function.

22-27 May, Lecture to the conference Carlo Rovelli's 60th birthday (Aix en Provence, Luminy,
Merseille)

8-11 Conference in Wake Forrest University, NC for the biennial meeting of the Center for the
philosophy of time

25-27 June invitation to participate to the edimburg conference of the centr for the study of time,
declined

3-6 September Participation of the workshop Philosophy of science in the mediterranean, Jerusalem

2015

25 March Luxemburg European school (Scuola Europea)

27 March University di Geneva.

27 April University of Copenhagen

30 April University of Bergen, Norway

7 May Oxford

11 May Liverpool

27 May Munich, LMU

3 July Max Planck Institut für Wissenschaftsgeschichte

9 September Urbino, 100 years from Einstein's General Theory of Relativity

22-26 September European Society for Philosophy of science biennial meeting EPSA 15

2014

13th May Conference in Gargnano (Garda Lake) on Time
14-19 May, Conference in Beijing on Science Values and Democracy
22th of May Conference in Barcelona on “spacetime and the wave function”
15th of September Oslo’s Conference on Causation and Powers
3rd-4th of October, Oxford Conference on Power Structuralism
8-9 December, Conference on the limits of science, Granada

2013

Cologne, Causation and Structuralism, 8 February
Athens 3 March, metaphysics of scientific realism
Paris La Sorbonne 4 April. On scientific revolutions
Helsinki, 3 Conference of the European Philosophy of Science Association EPSA, 27- agosto-1-
settembre, On Feynman’s diagrams
Louvain la Neuve, 18 October, Conference for in honor of Prof. M. Ghins

2012

Louvain-la Neuve 25-26 April
Heidelberg 4-6 June
Bielefeld 19 June
Hannover 20 June
COLLEGE DE FRANCE, 26 JUNE, participation to a conference on the 100th anniversary of the
discovery of cosmic rays
Oslo, 3-5 September, Conference on Causality and Modality
London, Metaphysics of Relation, 3-5 October
Urbino, November Conference with the Barcelona Group on Science and Metaphysics
Conference at the Georgia Institute of Technology. (November)
PSA 2012 meeting (accepted presentation)

2011

Persistence in Minkowski spacetime, University of Bonn, 13-14 February
Louvain la Neuve, Meeting of the Academie Internationale des Philosophies des Sciences 26-28
april,
Toronto 13-15 May, Metaphysics and the Philosophy of Science conference
Paris rationalité en situation, 10 december
Univ. of Leeds, conference at the dept. of philosophy 16 december. External examiner for a Ph.D
viva

2010

13-15 December, European Science Foundation, London School of Economics, Points of Contact
between Physics and Biology
24 September, Commentator to S. Psillos on adding modalities to OSR (Padova, SIFA)
26 April, University of Konstanz

2009

4 December, University of Athens, On natural laws, workshop with Steven French
20 November, University of Bonn, On time and existence in special relativity
19 October, Presentation at the European science foundation conference, Dreibergen-Zeist, Holland
15 April, Presentation at the conference Metaphysics in Science, Dubrovnik

2008

2 April, Talk on Causal Power and Disposition in Hotel Sonloup, Les Avants, Lousanne, for the
Congress Causation in Biomedical sciences. Philosophical and Historical aspects.
7, 8 9 May, Presentation at the Conference Pragmatism and Naturalism, Tilburg, The Netherlands
11 June, Presentation at the conference Time and the Universe Tau (Montreal)
13 June, Presentation at the 3rd Conference The Ontology of Spacetime, Concordia Montreal
15-16 September, Presentation to Conference organized by the Academie de Philosophie de Sciences
on Natural and Human sciences
19 December, Commentator of D. Dieks paper at the meeting European Science Foundations,
Vienna, Section Philosophy of Physics

2007

- 29-31 March, “Do dispositions and propensities have a role in the philosophy of quantum mechanics?”, 15th UK and European Meeting on the **Foundations of Physics**, University of Leeds
- 10-11 September, Connecting objective becoming with the conventionality of simultaneity, presented at the Boston Colloquium for the Philosophy of Science: Italian Trends in the Philosophy of Science
- 9 October, Congress of the Italian society of logic and philosophy of science (SILFS) (Commentary to Carlo Rovelli’s paper)
- 17 October, Participation to the congress *Autonomy of Reason?* Rome
- 27 October, Conference to the Festival della scienza (festival of science) Genoa
- 6 November, International conference in Honor of H. Putnam
- 29 November, Seminar in Louvain la Neuve on the role of mathematics in laws of nature
- 30 November, Seminar in Bruxelles on Becoming in physics and psychology

2006

- 8-11 June, Presentation at the Second conference on the Ontology of spacetime, Montreal, University of Concordia
- 14-18 June, Presentation to the first Congress of History of Philosophy of Science Society in Paris
- 6-7 October, Presentation at the conference *Probabilities, Causes and Propensities in Physics* (Universidas Complutense, Madrid)
- 13-14 October, Presentation “Structural spacetime realism and the evaporation of the substantialism-relationism debate” for the meeting “Physics meets Philosophy at every scale”, Parma

2005

- 17-21 January, Presentation at the conference Endophysics, Time, the Quantum and the Subjective, Zentrum für Interdisziplinäre Forschung, Bielefeld
- 27-31 August, Two presentations: one at the European Congress for Analytic Philosophy; the other at the special symposium “Quantum information and philosophy”, both held in Lisbon
- 5-10 September, Congress in Losini for the 70th birthday of G.C. Ghirardi

2004

7-8 May, Presentation at the conference “The Arrow of Time in Physics and Philosophy”, organized at the l’ULB of Louvain, Belgium, by Michel Ghins on account of the European Science Foundation

11-14 May, Presentation at the conference *The Ontology of Spacetime*, held at the Concordia University, Montreal, Canada. For this conference I have contributed to evaluate the submitted papers and to organize the sessions

15-19 July, Presentation at the conference “Time in the Natural sciences” at the Center for Time at the University of Sydney

11-13 October, Presentation at the conference “God and the Laws of nature”, Varenna, Italy

29-30 November, organization of the workshop *Time in Physics and Philosophy*

2003

May 8, Seminar at the Dept. of Physics at the University of Florence: “Why are most laws of nature mathematical?”

25-29 August, Talk at the International conference on the relation between mathematics and physics, Losinj, Croazia

8-11 October, Conference at the meeting “Reason and Reasonableness”

26-28 November, The nature of scientific explanation University of Milano “Bicocca

2002

19-21 September, Presentation of a paper at the international meeting organized by Paris X Nanterre e and by the Ecole Polytechnique on Causal Power and Dispositions

3-6 October, Sixth meeting of the Pittsburgh-Konstanz colloquium at the University of Pittsburgh

28-30 November, Commentator at the IX meeting of the Italian-Spanish philosophy

2001

24-27 May, “Language Rules and Laws of Nature” *The 5th Baltic Workshop on Logic and Philosophy of Science*.

4-8 June, Invitation to present “Determinism, Chance and Freedom, at the international congress on *Determinism*, Tegernsee, Freiburg

17-21 June, History and philosophy of cosmology (Monteporzio)

28 June, Seminar at the Institut für Grenzgebiet der Psychologie und Psychohygiene (Freiburg)

2000

2-4 November, Talk at the PSA 2000 meeting in Vancouver

4-6 October, Talk at the meeting of the Italian Society for Analytic Philosophy

27-29 September, Talk at the meeting on the philosophy of time at the London School of Economics, for the Royal Series in Philosophy, 2000

1999

20-26 August, Congress of the Logic Methodology and Philosophy of Science, Cracow, Poland

Invited lecture on the philosophy of space and time for the philosophy of physics session

1998

21-25 October, PSA 98 meeting in Kansas City, USA

Participation to the symposium *Special Relativity and Ontology*; (the title of my paper is “Becoming and the arrow of causation”), co-symposiasts J. Balashov and S. McCall, commentator R. Clifton.

23-25 September Bologna

Italian congress of the society for analytic philosophy.

1997

17-20 April. Triest, Italy

Invitation to present “Gödel’s two relativistic arguments for the ideality of time” at the international conference organized by the SIFF (Italian Society for the Philosophy and the Foundations of physics).

1996

5-8 September, Leeds, England

Invitation to present the paper “Mental causation and the reality of tenses” at the congress of the ESAP (European Society for Analytic Philosophy).

19-26 May, Castiglioncello, Italy

Commentator in the section “Space and Time” to John Norton’s and Andreas Bartel’s papers, presented at the annual meeting of the Fellows of the Center for History and Philosophy of Science of the University of Pittsburgh.

14 May, Cambridge, England

“The tensed theory of time and spacetime physics”, paper presented at the Department of philosophy of the University of Cambridge.

1995

29 September 1995, Pittsburgh

Talk for the Lunchtime Colloquium Series “On Becoming, Relativity, Nonseparability”.

19-25 August, Florence

“Becoming in Minkowski spacetime”, presented at the 10th International Congress of Logic, Methodology and Philosophy of science in the section philosophy of physics.

24-28 May, Parma Italy

“Measurability, computability and the existence of theoretical entities”, presented at the International congress of the Acadèmie de Sciences.

18-21 May, Poel, Germany

“Three views of the relationship between time and reality”, presented at the International congress on the philosophy of time, organized by J. Faye, M. Urchs and Scheffler.

1993

19 e 26 November, Vienna, Austria

Two seminars on Tarski’s indefinability theorem within the course held by prof. Herbert Hrachovec of the University of Vienna on Gödel’s incompleteness theorems (Gödel Unentscheidbarkeitsbeweis).

LIST OF PUBLICATIONS (IN ENGLISH)

Monographies

Public Science and Democracy, Bloomsbury, 2022 expanded and revised translation of *Disinformazione scientifica e Democrazia*, Cortina, 2019

Time and Reality. Spacetime physics and the objectivity of temporal becoming. CLUEB, Bologna, 1995.

Reviews of Time and Reality:

C. Callender (London School of Economics), *The British Journal for the Philosophy of Science*, 48, n.1, March 1997, p.117-120.

J. Faye (University of Copenhagen), “Dorato on Time and Reality”, *Epistemologia*, 20, pp. 355-372, 1997.

R. Le Poidevin (University of Leeds), “Relative Realities”, *Studies in History and Philosophy of Physics*, vol.28, n.4, 28, no.4, pp. 541-546, 1998.

The Software of the Universe. An Introduction to the History and Philosophy of the Laws of Nature, Ashgate, 2005

Reviews of The Software of the Universe

J. Roberts, *Studies in History and Philosophy of Modern Physics*, 37 (2006), pp. 738–744

E. Tobin, *International Studies in Philosophy of Science*, 2008, n.3, 230-233.

M. Schrenk, *British Journal for the Philosophy of Science*, 2011, n.62, 225-232.

Edited Books

3. M. Suarez, M. Dorato, and M. Redei (eds.), *EPSA Epistemology and Methodology of Science. Proceedings of the first conference of the European Philosophy of Science Association*, Springer, Dordrecht, 2 voll, 2010.

4. M. Dorato M. Morganti, (eds.) *Current and Historical Perspectives on the Use of Models in Physics, Chemistry and Life Sciences*, Part H of the *Springer Handbook of Model-Based Science*, volume editors L. Magnani and T. Bertolotti), Springer, Berlin (with Matteo Morganti).

Papers in peer-reviewed journals

2021

Forthcoming: The Affective and Practical Consequences of Presentism and Eternalism, *Argumenta*,

2020

Bohr meets Rovelli: a dispositionalist account of the quantum limits of knowledge, *Quantum Studies: Mathematics and Foundations*, <https://doi.org/10.1007/s40509-020-00220-y> ISSN: 2196-5609 (Print) 2196-5617 (Online)

2019

with Marc Wittmann The phenomenology and cognitive neuroscience of experienced temporality *Phenomenology and the Cognitive Sciences*, 1-25 DOI 10.1007/s11097-019-09651-4

Review of Simon Prosser's Experiencing Time, *Philosophy of Science*, October, 2019 Volume 86 Issue 4, 807-813, <https://doi.org/10.1086/704971>

Events and the Ontology of Quantum Mechanics, in *Topoi*, DOI:10.1007/s11245-015-9315-6 TOPO-D-15-00013.0, (2015 <http://arxiv.org/abs/1503.01140>)

With Marc Wittmann, (2019), The now and the passage of time, *KronoScope* 15 (2015) 191-213, Koninklijke, Brill NV, Leiden,| doi 10.1163/15685241-12341335

Laws of nature and the reality of the wave function, in *Synthese* 192, 10, October 2015, pp. 3179-3201--- DOI 10.1007/s11229-015-0696-2, <http://arxiv.org/abs/1503.01137>

Presentism and the Experience of Time, *Topoi*: Volume 34, Issue 1 (2015), Page 265-275, ISSN 0167-7411, DOI 10.1007/s11245-014-9272-5

Causal versus structural explanations in scientific revolutions, in *Synthese*, 2014, p.1-21, DOI: 10.1007/s11229-014-0546-7

with Matteo Morganti, "Grades of Individuality. A pluralistic view of identity in quantum mechanics and the sciences", *Philosophical Studies* (2013) vol. 163, n.3 pp. 591-610, DOI .1007/s11098-011-9833-z

Presentism/Eternalism and Endurantism/Perdurantism: why the unsubstantiality of the first debate implies that of the second, *Philosophia Naturalis* 49, 1, pp.25-41

"The natural ambiguity of the notion of "natural", and how to overcome it", *Epistemologia*, XXXV, pp.247-263, 2012

Putnam on time and special relativity, *European Journal Analytic Philosophy*, vol.4, n.2, pp. 51-70, 2008, (with a "Reply to Mauro Dorato", by Hilary Putnam, *European Journal Analytic Philosophy*, vol.4, n.2, 2008, pp.71-73)

with Michael Esfeld, “GRW as an ontology of dispositions”, in *Studies in History and Philosophy of Modern Physics*, 2010, 41, pp. 41-49.

Papers in peer-reviewed books

2021

Forthcoming. Some contemporary reflections on *Bergson's Time and free will. Essay on the immediate given of Consciousness* (Essai sur les données immédiates de la conscience - 1889), Alessandra Campo (ed) *The quarrel of time. Einstein vs Bergson*, De Gruyter: Berlin.

2020

Atoms and Time II, in *Atomism in Philosophy: A History From Antiquity To The Present* (ed. by U. Zilioli), Bloomsbury, London, p.342-355.

Agents in Healey's Pragmatist Quantum Theory: A Comparison with Pitowsky's Approach to Quantum Mechanics, In *Quantum, Probability, Logic* (eds. M. Hemmo, Orly Shenker) Springer, p. 233-256
Jerusalem Studies in Philosophy and History of Science

ISSN 2524-4248 ISSN 2524-4256 (electronic)

ISBN 978-3-030-34315-6 ISBN 978-3-030-34316-3 (eBook)

<https://doi.org/10.1007/978-3-030-34316-3>

2018

with Emanuele Rossanese, “The Nature of Representation in Feynman Diagrams” in *Perspectives in Science*, Special Issue edited by J. Brown, Volume 26, Number 4, July-August 2018, The Mit Press, pp. 443-458

with Laura Felline, “On explaining non-dynamically the quantum correlations via Quantum Information Theory: what it takes”, in Sven Hansson (ed), *Technology and Mathematics*, Springer, pp.235-25

2017

7. “Bohr's Relational Holism and the classical-quantum Interaction”, in H. Folse, J. Faye (eds.), *Niels Bohr and Philosophy of Physics: Twenty First Century Perspectives* Bloomsbury Publishing, London, UK, 2017, pp.133-154. <http://arxiv.org/abs/1608.00205>

8. with M. Morganti, *Models in Physics, Chemistry and Life Sciences Springer Handbook of Model-Based Science – Volume Editors: Lorenzo Magnani and Tommaso Bertolotti*, 2017

9. (with M. Morganti). *Current and Historical Perspectives on the Use of Models in Physics, Chemistry*

and Life Sciences (editorial work for and introduction to Part H of the Springer Handbook of Model-Based Science, editors L. Magnani and T. Bertolotti), Springer, Berlin, pp.840-842.

2016

10. Rovelli's Relation Quantum Mechanics, Anti-monism And Quantum Becoming, in Marmodoro, A., Yates D. (eds) *The Metaphysics of Relations*, Oxford University Press, 235-261.

2015

11. The physical world as a blob: is OSR really realism? In *Metascience*, special issue on Steven French, The structure of the world, Oxford University Press, Oxford, DOI: 10.1007/s11016-015-0031-z

14. "The naturalness of the naturalistic fallacy and the ethics of nanotechnology", in Hansson S.O. (ed), *The Role of Technology in science. Philosophical perspectives*, Springer, pp. 207-224.

15. with Esfeld M. "Primitivism and Dispositionalism about Laws", in Bygai T. Wüthrich C. (eds), *Metaphysics in Contemporary Physics*, (Poznań Studies in the Philosophy of the Sciences and the Humanities, vol. 103), Amsterdam/New York, NY: Rodopi, 2015, pp. 333-354.

2014

19. With Laudisa F. "The ontological status of the wave function", in S. Gao (ed.) *Protective Measurement*, Cambridge University Press, 2015, pp.119-144

2013

21. "How to combine and not to combine science and metaphysics" In V. Karakostas and D. Dieks (eds.), *EPSA11 Perspectives and Foundational Problems in Philosophy of Science*, The European Philosophy of Science Association Proceedings 2, DOI 10.1007/978-3-319-01306-0__24,, © Springer International Publishing Switzerland 2013, pp. 295-305.

2012

24. with A. Cei, Preface to “Physics, philosophy and bridging two gaps. In honor of Sir Michael Dummett, in A. Cei, M. Dorato (eds.) *European Journal of Analytic Philosophy*, vol.8, No.1, 2012, with contributions by Jeremy Butterfield, Holger Lyre, Jan Faye, Steven French and Kerry Mckenzie , Thomas Ryckman, Dennis Dieks.

2011

25. Dispositions and propensities in the ontology of quantum mechanics: some critical remarks”, in M. Suárez (ed.) "Probabilities, Causes, and Propensities in Physics", *Synthese Library*, Springer, pp. 197-218, DOI 10.1007/978-1-4020-9904-5_9, 2011.

18. "Truth, laws and the progress of science", in *Manuscrito. Revista Internacional de Filosofia*, E. Agazzi, I. D'Ottaviano, D. Mundici (eds.), *Science Truth and Consistency*, 2011, v. 34, n. 1, p. 185-206, ISSN 0100-6015

19. with Carl Hoefer, “Editorial”, *European Journal for Philosophy of Science: Volume 1, Issue 1* (2011), Page 1. DOI: 10.1007/s13194-011-0021-y

20. with Feline L., “Structural explanation and scientific structuralism”, in A. Bokulich and P. Bokulich (eds.), *Scientific Structuralism*, *Boston Studies in Philosophy of Science*, Springer, 2011, pp.161-176 DOI 10.1007/978-90-481-9597-8_9.

21. “Mathematical biology and the existence of biological laws”, in D. Dieks, W. Gonzales, S. Hartmann, T. Uebel, M. Weber (eds), *Probabilities, Laws and Structure*, Springer, 2011, pp.109-121, DOI 10.1007/978-94-007-3030-4_8

22. The Alexandroff present and Minkowski spacetime: why it cannot do what it has been asked to do, in D.Dieks, W. Gonzales, S. Hartmann, T. Uebel, M. Weber (eds.), *Explanation Prediction and Confirmation. New trends and old ones considered*. Springer, 2011, pp. 379-394.

2010

24. *Physics and Metaphysics: Interaction or Autonomy?*, in C. Calosi (ed), *HumanaMente*, <http://www.humanamente.eu/>, 2010.

25. “Why is the Language of Nature Mathematical?” in G. Antonini, A. Altamore (eds.), *Galileo and*

the Renaissance Scientific Discourse, Edizioni Nuova Cultura, Roma, 2010, pp.65-71.

26. On Various Senses Of “Conventional” And Their Interrelation In The Philosophy Of Physics: Simultaneity As A Case Study, in F. Stadler (ed.) together with D. Dieks, W. Gonzales, S.

Hartmann, T. Uebel, M. Weber, *The Present Situation in the Philosophy of Science*, Springer, 2010, pp. 335-349.

27. with Fellingine L., “Structural explanations in Minkowski spacetime: which account of models?”, in V. Petkov (ed.) *Space, Time, and Spacetime - Physical and Philosophical Implications of Minkowski's Unification of Space and Time*, Springer, Berlin, Heidelberg, New York, 2010, pp. 189-203.

28. “The historicization of nature and the nomologization of the mental, or the rapprochement between the natural and the human sciences”, in E. Agazzi e C. Di Bernardo (eds.), *Relations between Natural Sciences and Human Sciences. Relations entre les sciences naturelles et les sciences humaines*, Special Issue of *Epistemologia*, 15, 2010, pp. 243-258.

2009

29. “Peirce’s method of tenacity and the method of science: the consistency of pragmatism and naturalism”,

in R. Dottori (ed.), *Autonomy of Reason? Autonomie der Vernunft?*, Proceedings of the V Meeting Italian-American Philosophy, LIT Verlag, Vienna, 2009 pp.154-164.

2008

30. “Is structural spacetime realism relationism in disguise? The supererogatory nature of the substantivalism/relationism debate, in D. Dieks, *The ontology of spacetime II*, Amsterdam, Elsevier, 2008, pp.17-37.

2007

32. “Dispositions, relational properties and the quantum world”, in, *Dispositions and Causal Powers*, M. Kistler and B. Gnanasonou (eds.), Ashgate, 2007, pp.249-270.

33. “Review article: Relativity Theory between Structural and Dynamical Explanations”, *International Studies in the Philosophy of Science*, Vol. 21, No. 1, March 2007, pp. 95–102

2006

34. “The irrelevance of the presentism/eternalism debate for the ontology of Minkowski spacetime”, in D. Dieks (ed.), *The Ontology of Spacetime*, Elsevier, 2006, pp. 93-109.

35. with Massimo Pauri, “Holism and Structuralism in Classical and Quantum General Relativity”, in D. Rickles, S. French, and J. Saatsi (eds), *The Structural Foundations of Quantum Gravity*, Oxford University Press, Oxford, 2006, pp.121-151.

36. “Properties and Dispositions: some Metaphysical Remarks on Quantum Ontology”, in A. Bassi, D. Dürr, T. Weber, N. Zanghì (eds.), *Quantum Mechanics*, American Institute of Physics (AIP) Conference Proceedings, Vol. 844, 2006, pp. 139-157.

37. “Absolute becoming, relational becoming and the arrow of time: Some non conventional remarks on the relationship between physics and metaphysics”, *Studies in History and Philosophy of Modern Physics*, [Volume 37, Issue 3](#) , September 2006, 559-576, reprinted in *The Philosophy of Time*, N. Oaklander (ed.), vol IV, Routledge, Critical Concepts in Philosophy, London, 2009, pp. 254-276.

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