

Curriculum Vitæ
Dustin Lazarovici

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Université de Lausanne
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Personal Data

Date of birth:	July 22 nd 1985
Place of birth:	Bad Kreuznach, Germany
Nationality:	German
Marital status:	Single

Current Position

Post-Doctoral fellow and research assistant at the Department of Philosophy, Université de Lausanne (UNIL), Switzerland. Workgroup of Prof. Michael-Andreas Esfeld. Supported by a Feodor Lynen Research Fellowship of the Alexander von Humboldt Foundation.

Areas of research: Philosophy of Physics, Metaphysics, Relativistic Quantum Mechanics

Education

2015	Dr. rer. nat. (<i>summa cum laude</i>), Mathematics, LMU Munich Title of dissertation: "Mean field limits for charged particles" Supervisor: Prof. Dr. Detlef Dürr
2011	Diploma (with distinction), Physics, LMU Munich Diploma (with distinction), Mathematics, LMU Munich
2007/08	Visiting Student, McGill University, Montreal
2004	German Abitur (grade: 1.0, very good), Leibnizgymnasium Offenbach

Grants and Fellowships

2016–2017	Feodor Lynen Research Fellowship of the Humboldt Foundation
2012–2015	PhD-scholarship by the Studienstiftung des deutschen Volkes (German Academic Scholarship Foundation)
2011–2012	Scholarship by the Parmenides Foundation
2005–2011	Scholarship by the Studienstiftung des deutschen Volkes

Teaching Experience

Graduate courses taught

Seminar: Foundations of Mathematics for teacher trainees. LMU Munich (2012 – 2014)

Teaching Assistant with participation in teaching

Philosophy, Epistemology and History of Science. EPFL / UNIL Lausanne (2016/2017)

Teaching Assistant

Seminar: The ontology of physics. LMU Munich (2015)

Analysis I. LMU Munich (2011)

Invited Lectures

School: Fundamental Problems of Quantum Physics. ICTS Bangalore. (2016)

Teacher Training: Mathematical Foundations of Quantum Mechanics. Mathematisches Forschungsinstitut Oberwolfach. (2012)

Talks

“Relativity, Nonlocality and the Consequences”.
SILFS 2017. Bologna, 2017

“A mean field limit for the Vlasov-Maxwell system”.
Autumn School Mathematical Foundations of Physics. LMU Munich, 2016

“The wave function in a relativistic world”.
4th international summer school in philosophy of physics. Saig, 2016

“Mean field limits for charged particles”.
Seminar Applied Analysis. Marseille, 2016

“A Time-symmetric Relativistic Model Violating Bell's Inequality”.
Conference: Free Will and Retrocausality in a Quantum World. Cambridge, 2014

“A Time-symmetric Relativistic Model Violating Bell's Inequality”.
Workshop: Is quantum theory exact? Laboratori Nazionali di Frascati, 2014

“Are ‘macroscopic laws’ laws? - Typicality as the basis for statistical reasoning in physics”. Workshop:
Reduction and Emergence in Physics. Munich Center for Mathematical Philosophy & Center for
Advanced Studies, Munich, 2013

“Bell's Theorem”
Summer School: Quantum Theory Without Observers, Sesto, 2013

“What are Quantum States?”
Workshop: The metaphysics of contemporary physics. Lausanne, 2012.

Publications

Philosophy

- *Against Fields*. European Journal for Philosophy of Science, 2017. DOI: 10.1007/s13194-017-0179-z
- Michael Esfeld, Dustin Lazarovici, Vincent Lam, et Mario Hubert: *The Physics and Metaphysics of Primitive Stuff*. British Journal for the Philosophy of Science 68, pp. 131-168, 2017. DOI: 10.1093/bjps/axv026
- Andrea Oldofredi, Dustin Lazarovici, Dirk-André Deckert and Michael Esfeld: *From the universe to subsystems: Why quantum mechanics appears more stochastic than classical mechanics*. Fluctuations and Noise Letters 15:03, 2016. DOI: 10.1142/S0219477516400022
- Dustin Lazarovici and Paula Reichert: *Typicality, Irreversibility and the Status of Macroscopic Laws*. Erkenntnis 80, pp. 689-716, 2015. DOI: 10.1007/s10670-014-9668-z
- *Relativistic Interactions and the Structure of Time*. In: A. von Müller, T. Filk (eds.), Re-Thinking Time at the Interface of Physics and Philosophy. On thinking Vol. 4, Springer, 2015.
- Michael Esfeld, Dustin Lazarovici, Mario Hubert, and Detlef Dürr: *The ontology of Bohmian mechanics*. The British Journal for the Philosophy of Science 65(4), pp. 773-796, 2014. DOI: 10.1093/bjps/axt019
- *Lost in Translation: A Comment on 'Noncommutative Causality in Algebraic Quantum Field Theory'*. In: Galavotti et.al. (eds.) New Directions in the Philosophy of Science. The Philosophy of Science in a European Perspective, Vol. 5, Springer, 2014.
- Detlef Dürr and Dustin Lazarovici: *Quantenphysik ohne Quantenphilosophie*. In: M. Esfeld (ed.): Philosophie der Physik. Suhrkamp, Berlin, pp. 110-134, 2012.
- Detlef Dürr and Dustin Lazarovici: *Der Dialog des Demokrit*. In: J. Nida-Rümelin and E. Özmen (eds.): Welt der Gründe. Proceedings des XXII. Deutschen Kongresses für Philosophie, Meiner Verlag, pp. 1207-1217, 2012.

Foundations of Quantum Mechanics

- *A relativistic retrocausal model violating Bell's inequality*. Proceedings of the Royal Society A 471, (2015). DOI: 10.1098/rspa.2014.0454

Mathematical Physics

- A particle approximation for the relativistic Vlasov-Maxwell dynamics. Preprint: arXiv:1602.07251

- Dustin Lazarovici and Peter Pickl: *A mean-field limit for the Vlasov-Poisson system*. Archive for Rational Mechanics and Analysis 225(3), pp. 1201-1231, 2017. DOI:10.1007/s00205-017-1125-0
- *The Vlasov-Poisson dynamics as the mean-field limit of extended charges*. Communications in Mathematical Physics, 347(1), pp. 271-289, 2016. DOI: 10.1007/s00220-016-2583-1
- *Time Evolution in the external field problem of Quantum Electrodynamics*. Diploma thesis, LMU München, (2011). Online version: arXiv:1310.1778

Journal Referee

Communication in Mathematical Physics
Erkenntnis
European Journal for Philosophy of Science
Fluctuations and Noise Letters
Foundations of Physics
Journal of Physics A
Philosophy of Science

Languages

German (native speaker)
English (near native)
Romanian (fluent in speaking)
French (very good command)
Italian (basic skills)