

Valia Allori

Curriculum Vitae

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Education

- Ph. D., Philosophy, Rutgers University, October 2007
Thesis Title: “Fundamental Physical Theories: Mathematical Structures grounded on a Primitive Ontology”.
Committee: Tim Maudlin (supervisor), Frank Arntzenius, Barry Loewer, Sheldon Goldstein, Rutgers University; David Z. Albert, Columbia University
- Ph. D., Physics, University of Genova (Italy), December 2001
Thesis Title: “Decoherence and the Classical Limit of Quantum Mechanics”
Committee: Nino Zanghi (supervisor), University of Genova (Italy); Detlef Dürr, University of Munich (Germany); Lodovico Lanz, University of Milano (Italy)
- Certificate in Scientific Communication, University of Milano (Italy), Fall 1998
- Master, Physics (*Summa cum laude*), University of Milano (Italy), March 1997
Thesis Title: “Interaction of ^{12}C with ^{103}Rh at Energies greater than 33 MeV/nucleon”.
Committee: Ettore Gadioli (supervisor), Claudio Birattari, Roberto Bonetti, University of Milano (Italy)

Area of Specialization

- Philosophy of Physics
- Philosophy of Science
- Metaphysics

Area of Competence

- Logic, Philosophy of Mathematics

Publications: Books

- “La Natura delle Cose: Introduzione ai Fondamenti e alla Filosofia della Fisica”, (transl.: The Nature of Things: Introduction to the Philosophy and the Foundation of Physics), (with M. Dorato, F. Laudisa, N. Zanghi) Carocci eds., Roma (2005)

Publications: Articles

Philosophy

- “On the Common Structure of Bohmian Mechanics and the Ghirardi-Rimini-Weber Theory”, (with S. Goldstein, R. Tumulka, and N. Zanghí). To appear in *The British Journal for the Philosophy of Science* (June 2008)
- “Ontologie Quantistiche di Particelle, Campi e Lampi” (transl.: “Quantum Ontologies of Particles, Fields and Flashes”), (with N. Zanghí). To appear in “*Teorie e Modelli*”, E. Fano and M. Antonelli (eds.), special issue “*Strutture dello spazio*” (2007)
- “Puó la descrizione quanto-meccanica della realtà fisica essere considerata completa?” (transl.: “Can Quantum-Mechanical Description of Physical Reality Be Considered Complete?”), (with N. Zanghí). *Il Protagora* Vol. 9, 163-180 (2007)
- “What is Bohmian Mechanics”, (with N. Zanghí), *International Journal of Theoretical Physics* **43**, 1743-1755 (2004)
- “Seven Steps Toward the Classical World”, (with D. Dürr, S. Goldstein, N. Zanghí), *Journal of Optics B* **4**, 482-488 (2002)

Physics

- “Spectra of Alpha Particles Emitted in the Interaction of ^{12}C with ^{93}Nb ”, (with M. Cavinato, *et al.*), *NAC Annual Report* (1998)
- “Angular Distribution and Forward Recoil Range Distributions of the Residue Created in the Interaction of ^{12}C and ^{16}O ions with ^{103}Rh ”, (with E. Gadioli, *et al.*), *Nuclear Physics A* **641**, 271-296 (1998)
- “Low Linear Momentum and Energy Transfer Reactions in the Interaction of ^{12}C with ^{103}Rh ”, (with E. Gadioli *et al.*), *Proceedings of the International Conference on Heavy Nucleon Reaction*, Paris (1998)
- “The Interaction of ^{12}C and ^{16}O with ^{103}Rh ”, (with E. Gadioli, *et al.*), *Heavy Ion Physics* **7** (1998)
- “Study of the Interaction of ^{12}C and ^{16}O with ^{103}Rh ”, (with E. Gadioli, *et al.*), *NAC Annual Report* (1997)
- “A Comprehensive Study of the Interaction of ^{12}C with Nuclei”, (with E. Gadioli, *et al.*), *Proceedings of the 8th International Conference on Nuclear Reaction Mechanisms*, Varenna, Ricerca ed Educazione Permanente (1997)
- “Comprehensive Study of the Reaction of ^{12}C with ^{103}Rh up to 33 MeV/nucleon”, (with E. Gadioli, *et al.*), *Physics Letters B* **394**, 29-36, (1997)
- “Comprehensive Study of the Interaction of ^{12}C with ^{103}Rh up to 33 MeV/nucleon”, (with E. Gadioli, *et al.*), *Proceedings of the International Symposium on Large Scale Collective Motion of Atomic Nuclei*, Brolo, World Scientific, Publ. Co. Ltd, Singapore (1996)

Presentations

- Expected: Comment on Brad Skow’s paper “Why Does Time Pass?”; Ninth Bellingham Summer Philosophy Conference; August 3-7 2008.
- Expected: “What Does Physics Say about Time?”; Philosophy Department, University of Macerata, Macerata (Italy). May 2008.

- Comment on Jeffrey Dunn’s paper “Counterfactual Dependence, Thermodynamics, and the Special Sciences”; 2008 APA Central Division meeting. Chicago, April 17-20, 2008
- Comment on Cian Dorr’s paper “Quantum Mechanics and Space”; Metaphysics and Physics Conference. Rutgers, October 26-8, 2007
- “Primitive Ontology and the Structure of Fundamental Physical Theories”; FQM Foundations of Quantum Mechanics - Quantum Reality: Ontology, Probability, Relativity Conference in honor of Sheldon Goldstein on the occasion of his 60th birthday. Rutgers University, October 7-9, 2007
- “On the Common Structure of Quantum Theories without Observers”; Philosophy of Physics Colloquium, University of Maryland College Park, March 21, 2007
- “Pandora’s Cat: On Bohmian Mechanics and GRW theory”; XXXVI Conference of the Italian Society of History of Physics and Astronomy, June 15-17, 2006
- “On the Importance of the Notion of Primitive Ontology”; Second School on the Foundations of Physical Theories, July 5-9, 2004
- “Seven Steps toward the Classical World”; Mysteries, Puzzles and Paradoxes in Quantum Mechanics Conference, August 27-September 1, 2001
- “Decoherence and the Classical Limit of Quantum Mechanics”; IQSA (International Quantum Structures Association) Conference Quantum Structures V, March 31-April 3, 2001
- “Heavy Ions Reactions at Low Energy”; Centenary of SIF (Italian Society of Physics), June 1997