

ARKADY PLOTNITSKY

CV (Short Version)

(The complete version of CV is available upon request)

Theory and Cultural Studies Program
Department of English
Purdue University
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CURRENT ACADEMIC POSITION

Professor of English and Theory and Cultural Studies
Professor, Philosophy and Literature Program
Director of Theory and Cultural Studies Program, Purdue University

EDUCATION

Ph. D. University of Pennsylvania, Comparative Literature & Literary Theory
M.S. Leningrad (now St. Petersburg) State University (Russia), Mathematics

HONORS AND AWARDS (most recent)

2011 (Spring) Fellow, Center for the Humanistic Studies, Purdue University
2008 (November) Short Term Visitor, Perimeter Institute for Theoretical Physics,
Waterloo, Canada
2007 (Spring) Study in the Second Discipline (Biology) Award and Research Leave,
Purdue University
2001-2006 University Faculty Scholar, Purdue University

ACADEMIC APPOINTMENTS (most recent)

2000-present Professor of English and Theory and Cultural Studies, Purdue University
1999-present Director, Theory and Cultural Studies Program, Purdue University
2008-2011 Co-director, Philosophy and Literature Program, Purdue University

PRIMARY RESEARCH INTERESTS

Continental philosophy; history and philosophy of mathematics and science; literary criticism and theory; modernity and postmodernity; British and European Romanticism; the relationships among literature, philosophy, and science

PUBLICATIONS

BOOKS (authored)

- 2012 *Niels Bohr and Complementarity: An Introduction*, Berlin & New York: Springer Scientific Publishers, 2012
- 2009 *Epistemology and Probability: Bohr, Heisenberg, Schrödinger, and the Nature of Quantum Thinking* (Springer series *Fundamental Theories in Physics*), Berlin & New York: Springer Scientific Publishers, 2009
- 2006 *Reading Bohr: Physics and Philosophy* (Springer series *Fundamental Theories in Physics*), Berlin & New York: Springer Scientific Publishers, 2009
- 2002 *The Knowable and the Unknowable: Modern Science, Nonclassical Thought, and the “Two Cultures,”* Ann-Arbor, MI: University of Michigan Press, 2002
- 1994 *Complementarity: Anti-Epistemology After Bohr and Derrida*, Durham, NC: Duke University Press, 1994
- 1993 *In the Shadow of Hegel: Complementarity, History and the Unconscious*, Gainesville, FL: University Press of Florida, 1993
- 1993 *Reconfigurations: Critical Theory and General Economy*, Gainesville, FL: University Press of Florida, 1993

BOOKS (edited)

- 2003 *Idealism without Absolutes: Philosophy and Romantic Culture*, co-edited with Tilottama Rajan, Albany, NY: SUNY Albany Press, 2003
- 1997 *Mathematics, Science, and Post-Classical Theory* co-edited with Barbara Herrnstein Smith, Durham, NC: Duke University Press, 1997, originally published as a Special Issue of *South Atlantic Quarterly*

REPRESENTATIVE RECENT JOURNAL ARTICLES AND BOOK CHAPTERS (peer reviewed) (The complete list of articles includes over 100 entries and is available upon request)

- 2013 “‘It’s best not to think about it all—like the new taxes’: Reality, observer, and complementarity in Bohr and Pauli,” in *Quantum Theory: Reconsideration of Foundations 6*, ed. A. Khrennikov et al, Melville, NY: American Institute of Physics, 2013, 22-47

- “Perhaps the biggest of all the big changes’: Measurement and multiplicity in quantum field theory,” in *Quantum Theory: Reconsideration of Foundations 6*, ed. A. Khrennikov et al, Melville, NY: American Institute of Physics, 2013, 300-316
- 2012 “Dirac’s Equation and the Nature of Quantum Field Theory,” *Physica Scripta* 2012 014010
- “The Spacetimes of Nymphs: Matter and Multiplicity in Einstein, Monet, and Deleuze and Guattari,” in *Revisiting Normativity with Deleuze*, ed. Rosi Braidotti and Patricia Pisters, New York: Continuum, 2012
- “‘To Be, To Be. What Does it Mean To Be?’: On Quantum-like Literary Models,” in *Foundations of Probability in Physics 6*, ed. G. M. D’Ariano et al, Melville, NY: American Institute of Physics, 2012, 264-286
- “On Foundational Thinking in Fundamental Physics: From Riemann to Einstein to Heisenberg,” in *Foundations of Probability in Physics 6*, ed. G. M. D’Ariano, Melville, NY: American Institute of Physics, 2012
- “The Singularity Wager: A Response to David Chalmers’ ‘The Singularity: A Philosophical Analysis,’” *Journal of Consciousness Studies*, Volume 19, Numbers 7-8, 2012: 61-76
- “Experimenting with Ontologies: Sets, Spaces, and Topoi with Grothendieck and Badiou,” *Society and Space* 30.2 (2012): 351-368
- “From Resonance to Interference: The Architecture of Concepts and the Relationships among Philosophy, Art, and Science in Deleuze and Deleuze and Guattari,” *Parallax* 62 (2012): 19-33
- “Adventures of the Diagonal: Non-Euclidean Mathematics and Narrative,” in *Circles Disturbed: The Interplay of Mathematics and Narrative*, ed. Apostolos Doxiadis and Barry Mazur, Princeton, NJ.: Princeton University Press, 2012
- 2011 “‘Who Thinks Abstractly’: Quantum Theory and the Architecture of Physical Concepts,” in *Advancement in Quantum Theory*, ed. Andrei Khrennikov, et al. Melville, NY: American Institute of Physics, 2011, 207-219
- “Dark Materials to Create More Worlds’: On Causality in Classical Physics, Quantum Physics, and Nanophysics,” *The Journal of Computational and Theoretical Nanoscience* Vol. 8, no. 6 (2011): 983-997
- 2010 “Psychoanalysis in Relation to Literature and Science,” in *Routledge Companion*

- to Literature and Science*, ed. Bruno Clarke and Manuela Rossini (New York: Routledge, 2010)
- “The Multiple and the Unthinkable in Postmodern Thought: From Physics to Justice,” *Postmodern Culture* 21.1 (2010)
- “On Reasonable and Unreasonable Effectiveness of Mathematics in Classical and Quantum Physics,” *Foundations of Physics* (2011) 41:466-491
- “The Image of Thought and the Sciences of the Brain,” in *Deleuze and Science*, ed. Peter Gaffney (Minneapolis, Minn.: University of Minnesota Press, 2010)
- “The Art and Science of Experimentation in Quantum Physics,” in *Foundations of Probability and Physics 5*, ed. Andrei Khrennikov, et al. Melville, NY: American Institute of Physics, 2010
- 2009 “‘A Palace and a Prison on Each Hand:’ Venice between Madness and Reason, from the Baroque to Romanticism,” in *The Idea of the City*, ed. Joan Fitzpatrick (Cambridge: Cambridge Scholars, 2009)
- “Bernhard Riemann’s Conceptual Mathematics and the Idea of Space,” *Configurations* 17. 1-2 (2009): 105-130
- “Bernhard Riemann,” in *Deleuze’s Philosophical Lineage*, eds. Graham Johns and Jon Roffe, Edinburgh: Edinburgh University Press, 2009
- “Causality and Probability in Quantum Mechanics,” in *Quantum Theory: Reconsideration of Foundations 5*, ed. Guillaume Adenier, et al. Melville, NY: American Institute of Physics, 2009
- 2008 “Beyond the Visible and the Invisible: The Gaze and Consciousness in Diego Velazquez’s *Las Meninas*,” *Journal of Consciousness Studies* (November 2008)
- “‘The Shadow of the ‘People to Come’’: Chaos, Brain, and Thought in Gilles Deleuze and Félix Guattari’s *What is Philosophy?* in *Sensorium: Aesthetics, Art, and Life*, ed. Felicity Colman et al, Cambridge; Cambridge Scholars press: 2008
- 2007 “Prediction, repetition, and erasure in quantum physics: experiment, theory, epistemology,” *Journal of Modern Optics* (November 2007)
- “Différential Atopologies, Mathematical and Ethico-Political: Light, Space, and Alterity in Derrida,” *The European Legacy*, Vol. 12, No. 4, 443–455, 2007
- “Community and Singularity, with Immanuel Kant and Paul de Man,” *Legacies of Paul de Man*, Marc Redfield, ed. New York: Fordham University Press, 2007; an earlier version published in *Romantic Circle Praxis Series* (May 2005)

“Badiou’s Equations—and Inequalities: A Response to Robert Hughes’s ‘Riven,’”
Postmodern Culture, Vol. 17(3) March 2007

“Minute Particulars and Quantum Atoms: The Invisible, the Indivisible, and the Unvisualizable in William Blake and Niels Bohr,” Special issue on “Blake and Visual Culture,” *IMAGETEXT* (2007)

“Prediction and Repetition in Quantum Physics: The EPR Experiment and Quantum Probability,” in *Foundations of Probability and Physics 4*, ed. Guillaume Adenier, et al. Melville, NY: American Institute of Physics, 2007

REPRESENTATIVE RECENT INVITED AND PLENARY LECTURES

2013 “On the Concept of Quantum Field: From Reality to Probability,”
Conference “Frontiers of Quantum and Mesoscopic Thermodynamics 2013,”
Prague, Czech Republic, July 2013

“Complementarity Beyond Physics and Physics Beyond Complementarity,”
Conference “Advances in Quantum Theory,” Linnaeus University, Växjö,
Sweden, June 2013

“‘The Measure of the Universe’: Science, Probability, and Romantic
Imagination,” Northwestern University, Evanston, IL, May 9, 2013; an earlier
version given at Purdue University, September 2012

“Mallarmé, Mathematics, and Modernism,” Workshop “Mathematics,
Philosophy, and Literature,” Harvard University, Cambridge, MA, April 2013

2012 “The Topology, Geometry, and Physics of Desire,” École Normal
Supérieure, Paris France, November 2012

“Ontology, Logics, and Ethics in Levinas, Badiou, and Analytic Philosophy,”
École Normal Supérieure, Paris France, November 2012

“Beyond the Imageless: The Unhinging of Being and the Poetry of
Action in Shelley,” Conference “Romanticism and Philosophy,” Lille 3
University, Lille, France, September 2012

“Series of Three Lectures, ‘Causality and Probability,’” at the
Summer school on “Open Systems, Quantum Foundations, and beyond the
Quantum,” Joao Pessoa, Brazil, August 2012

“From the Correspondence Principle to Dirac’s Equation,”

- Conference “Quantum Theory; Reconsideration of Foundations 7,” Linnaeus University, Växjö, Sweden, June 2011
- 2011 “Of ‘Points, Lines, and Planes,’ and ‘Tables, Chairs, and Beer Mugs’ in Mathematics, Philosophy, and Art,” Seminar “Folds, Networks, Fissures: Topological Thinking in Philosophy, Art and Literature,” The Radcliffe Institute for Advanced Study at Harvard University, Cambridge, MA, December 2011
- A Two Day Workshop with Arkady Plotnitsky, co-organized by the Centre for Philosophy and Political Economy (CPPE) and the QDT (Quantum Decision Theory) Group Thursday the 17th and Friday the 18th of November, 2011 University of Leicester, UK
- “What is Quantum Field Theory, Technologically, Mathematically, and Philosophically,” Conference “Frontiers of Quantum and Mesoscopic Thermodynamics 2011,” Prague, Czech Republic, July 2011
- “On Foundational Thinking in Fundamental Physics,” Conference “Foundations of Probability in Physics 6,” Linnaeus University, Växjö, Sweden, June 2011;
- “‘Gleams of a Remoter World:’ Romantic Thought and the Physics of Light,” University of Western Ontario, London, Ontario, Canada, March 2011
- 2010 “Composition, Experimentation, and Conceptuality in Art, Science, and Philosophy: Kandinsky, Heisenberg, and Deleuze and Guattari,” Columbia College, Chicago, November, 2010
- “From Physics to Justice: On the Character of Postmodern Thought,” Purdue University, W. Lafayette, IN, November 2010
- “Materiality and Multiplicity: Postmodern Thought, Scientific and Philosophical,” University of California, Irvine, October 2010
- “The Spacetimes of Nymphs: Matter and Multiplicity in Einstein, Monet, Lautman, and Deleuze,” 3d International Deleuze Studies Conference, University of Amsterdam, Amsterdam, July 2010
- “‘Who Thinks Abstractly’: Quantum Theory and the Architecture of Physical Concepts,” Conference, Advancement in Quantum Theory, Linnaeus University, Växjö, Sweden, June 2010
- “Why Mathematics is Literary and Why Literature is Mathematical?” Conference on Literature and Mathematics, Aberdeen University, Aberdeen, Scotland, May 2010

- “Experimenting with Ontologies: Mathematics and Politics in Deleuze and Badiou,” Conference “Deleuze and Politics,” Purdue University, April 2010
- 2009 “Non-Euclidean Mathematics and Non-Euclidean Narrative,” Lecture and Seminar at Summer School on Mathematics and Narrative, Central European University, Budapest Hungary, July 2009
- “On the Reasonable and Unreasonable Effectiveness of Mathematics in Classical and Quantum Physics,” Pavia University, Pavia, Italy, July 2009; also given at a conference “Quantum Theory: Reconsideration of Foundations of 5,” Växjö University, Sweden, June 2009
- 2008 “From Bohr to Bayes: Causality, Probability and Statistics in Quantum Theory,” Perimeter Institute for Theoretical Physics, Waterloo, CA, November 2008
- “Physical and Mathematical Causality in Quantum Physics,” Conference “Foundations of Probability in Physics 5,” Växjö University, Växjö, Sweden, August 2008; also given at “Frontiers of Quantum and Mesoscopic Thermodynamics,” Prague, Czech Republic, August 2008
- “Samuel Beckett’s *The Unnamable* and the Postmodern Brain,” Purdue University, Calumet, IN, April 2, 2008
- 2007 “Non-Euclidean Mathematics and Non-Euclidean Narrative,” “Mathematics and Narrative,” Delphi, Greece, July 2007
- “The Ends of the Copenhagen Interpretation,” Conference “Quantum Theory: Reconsideration of Foundations 5,” Conference Växjö University, Sweden, June 2007