

List of Publications 1980-2010

Submitted / In Preparation

- 77. P. Busch, D.B. Pearson, “Inaccuracy and unsharpness in approximate joint measurements of position and momentum” (in preparation 2010).
- 76. H.-J. Schmidt, P. Busch, “Reduction and Extremality of Finite Observables”, in preparation (2010).
- 75. P. Busch, L. Loveridge, “ ‘Measurement of Quantum Mechanical Operators’ Revisited”, in preparation (2010)
- 74. P. Busch, L.D. Loveridge, “Position Measurements Obeying Momentum Conservation”, submitted (May 2010). [arXiv:1005.0569v1 \[quant-ph\]](#).
- 73. P. Busch, J. Kiukas, P. Lahti, “On the notion of coexistence in quantum mechanics”, *Math. Slovaca* (in press, 2010). [arXiv:0905.3222v1 \[quant-ph\]](#).

A. Articles in Refereed Journals

- 72. P. Busch, “Quantum mechanics as a framework for dealing with uncertainty”, *Phys. Scr.* **T140** (2010) 014003 (7pp). DOI: 10.1088/0031-8949/2010/T140/014003, [arXiv:1004.2985v1 \[quant-ph\]](#).
- 71. P. Busch, G. Jaeger, “Unsharp Quantum Reality”, *Found. Phys.* **40** 1341-1367 (2010). DOI: 10.1007/s10701-010-9497-0, [arXiv:1005.0604v2 \[quant-ph\]](#).
- 70. P. Busch, H.-J. Schmidt, “Coexistence of qubit effects”, *Quant. Inf. Processing* **9**, 143-169 (2010). Published online 13 March 2009, DOI: 10.1007/s11128-009-0109-x, [arXiv:0802.4167v3 \[quant-ph\]](#).
- 69. P. Busch, “On the Sharpness and Bias of Quantum Effects”, *Found. Phys.* **39**, 712-730 (2009). DOI: 10.1007/s10701-009-9287-8, [arXiv:0706.3532v2 \[quant-ph\]](#).
- 68. P. Busch, T. Heinosaari, “Approximate joint measurements of qubit observables”, *Quant. Inf. Comput.* **8** 0797-0818 (2008). [arXiv:0706.1415v2 \[quant-ph\]](#)
- 67. P. Busch, J. Kiukas, P. Lahti, “Measuring position and momentum together”, *Phys. Lett. A* **372** 4379-4380 (2008). DOI: 10.1016/j.physleta.2008.04.019, [arXiv:0804.4333v1 \[quant-ph\]](#).
- 66. P. Busch, W. Stulpe, “The Structure of Classical Extensions of Quantum Probability Theory”, *J. Math. Phys.* **49** 032104/1-22 (2008). DOI: 10.1063/1.2884581, [arXiv:0708.1539v1 \[quant-ph\]](#).
- 65. P. Busch, T. Heinonen, P. Lahti, “Heisenberg’s Uncertainty Principle”, *Phys. Rep.* **452** 155-176 (2007). DOI: 10.1016/j.physrep.2007.05.006, [quant-ph/0609185v3](#).
- 64. P. Busch, D.B. Pearson, “Universal joint-measurement uncertainty relation for error bars”, *J. Math. Phys.* **48** 082103/1-10 (2007). DOI: 10.1063/1.2759831 [math-ph/0612074v2](#).
- 63. P. Busch, C.R. Shilladay, “Complementarity and Uncertainty in Mach-Zehnder Interferometry and beyond”, *Physics Reports* **435**, 1-31 (2006). DOI: 10.1016/j.physrep.2006.09.001, [quant-ph/0609048v1](#).
- 62. C. Polachic, C. Rangacharyulu, A.M. van den Berg, S. Hamieh, M.N. Harakeh, M. Hunyadi, M.A. de Huu, H.J. Wörtche, J. Heyse, C. Bäumer, D. Frekers, J.A. Brooke, P. Busch, “Polarization Correlations of 1S0 Proton Pairs as Tests of Bell and Wigner Inequalities”, *Phys. Lett. A* **323**, 176–181 (2004). DOI: 10.1016/j.physleta.2004.01.073, [quant-ph/0303136v1](#).
- 61. P. Busch, T. Heinonen, P.J. Lahti, “Noise and Disturbance in Quantum Mechanics”, *Phys. Lett. A* **320** 261–270 (2004). DOI: 10.1016/j.physleta.2003.11.036, [quant-ph/0312006](#).
- 60. S. Weigert, P. Busch, “Lüders Theorem for Coherent State POVMs”, *J. Math. Phys.* **44**, 5474–5486 (2003). DOI: 10.1063/1.1623001, [quant-ph/0308035](#).

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58. P. Busch, C.R. Shilladay, “Uncertainty Reconciles Complementarity with Joint Measurability”, *Phys. Rev. A* **68**, 034102/1–4 (2003). DOI: 10.1103/PhysRevA.68.034102, [quant-ph/0207081v2](#).
57. P. Busch, “The role of entanglement in quantum measurement and information processing”, *Int. J. Theor. Phys.* **42**, 937–941 (2003). Invited paper, XXVIth School of Theoretical Physics, University of Silesia. DOI: 10.1023/A:1025462220957 [quant-ph/0209090v3](#).
56. J.A. Brooke, P. Busch, D.B. Pearson, “Commutativity up to a Factor for Bounded Positive Operators”, *Proc. Roy. Soc. A (Lond.)* **458**, 109–118 (2002). DOI: 10.1098/rspa.2001.0858, [math.FA/0007049v3](#).
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51. P. Busch, “Unsharp Localization and Causality in Relativistic Quantum Theory”, *J. Phys. A* **32**, 6535–6546 (1999).
50. P. Busch, “Stochastic Isometries in Quantum Mechanics”, *Math. Phys., Analysis and Geometry* **2**, 83–106 (1999).
49. P. Busch, S.P. Gudder, “Effects as Functions on Projective Hilbert Space”, *Lett. Math. Phys.* **47**, 329–337 (1999).
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47. P. Busch, “Orthogonality and Disjointness in Spaces of Measures”, *Lett. Math. Phys.* **44**, 215–224 (1998). [math-ph/9804005](#).
46. P. Busch, “Can ‘Unsharp Objectification’ Solve the Quantum Measurement Problem?”, Proceedings, “Quantum Structures 1996 – Berlin”, *Int. J. Theor. Phys.* **37**, 241–247 (1998). [quant-ph/9802011](#).
45. P. Busch, P.J. Lahti, “Remarks on Separability of Compound Quantum Systems and Time Inversion”, *Found. Phys. Lett.* **10**, 113–117 (1997).
44. P. Busch, P.J. Lahti, “Individual Aspects of Quantum Measurements”, *J. Phys. A* **29**, 5899–5907 (1996).
43. P. Busch, P.J. Lahti, “Correlation Properties of Quantum Measurements”, *J. Math. Phys.* **37**, 2585–2601 (1996). [quant-ph/9603016](#).
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39. P. Busch, P.J. Lahti, M. Grabowski, “Repeatable Measurements in Quantum Mechanics”, *Found. Phys.* **25**, 1239–1266 (1995).

38. P. Busch, P.J. Lahti, “Complementarity of Quantum Observables”, *Riv. Nuovo Cim.* **18**, N. 4, 1–27 (1995).
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34. P. Busch, K. Hass, “Causality of Superluminal Barrier Traversal”, *Phys. Lett. A* **185**, 9–13 (1994).
33. P. Busch, R. Quadt, “Coarse Graining and the Quantum-Classical Connection”, *Open Systems & Information Dynamics* **2**, 129–155 (1994).
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31. P. Busch, R. Quadt, “Concepts of Coarse Graining in Quantum Mechanics”, *Int. J. Theor. Phys.* **32**, 2261–2269 (1993).
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29. P. Busch, H. Scherer, “Problem of Signal Transmission via Quantum Correlations and Einstein Incompleteness of Quantum Mechanics”, *Phys. Rev. A* **47**, 1647–1651 (1993).
28. P. Busch, E. Ruch, “The Measure Cone - Irreversibility as a Geometrical Phenomenon”, Festschrift for Per-Olov Löwdin, *Int. J. Quant. Chem.* **41**, 163–185 (1992).
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25. P. Busch, P. Mittelstaedt, “The Problem of Objectification in Quantum Mechanics”, *Found. Phys.* **21**, 889–904 (1991).
24. P. Busch, “Informationally Complete Sets of Physical Quantities”, *Int. J. Theor. Phys.* **30**, 1217–1227 (1991).
23. P. Busch, R. Quadt, “On Ruch’s Principle of Decreasing Mixing Distance in Classical Statistical Physics”, *J. Stat. Phys.* **61**, 311–328 (1990).
22. P. Busch, P.J. Lahti, “Some Remarks on Unsharp Quantum Measurements, Quantum Non-Demolition, And All That”, *Ann. Physik (Leipzig)* **47**, 369–382 (1990).
21. P. Busch, “On the Energy-Time Uncertainty Relation. Part II: Pragmatic Time Versus Energy Indeterminacy”, *Found. Phys.* **20**, 33–43 (1990).
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17. P. Busch, F.E. Schroeck, “On the Reality of Spin and Helicity”, Festschrift for Peter Mittelstaedt, *Found. Phys.* **19**, 807–872 (1989).
16. P. Busch, M. Grabowski, P.J. Lahti, “Some Remarks on Effects, Operations, and Unsharp Quantum Measurements”, *Found. Phys. Lett.* **2**, 331–345 (1989).

15. P. Busch, P.J. Lahti, “The Determination of the Past and the Future of a Physical System in Quantum Mechanics”, *Found. Phys.* **19**, 633–678 (1989).
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13. P. Busch, “Linearity Versus Symmetry?”, *Phys. Lett. A* **126**, 300–302 (1988).
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7. P. Busch, “Unsharp Reality and Joint Measurements for Spin Observables” *Phys. Rev. D* **33**, 2253–2261 (1986).
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2. P. Busch, “On Joint Lower Bounds of Position and Momentum Observables in Quantum Mechanics”, *J. Math. Phys.* **25**, 1794–1797 (1984).
1. P. Busch, “On the Behavior of an Oscillator Clock Near the Singularity of a Gravitational Field”, *Gen. Rel. Grav.* **12**, 483–492 (1980).

B. Original Articles in Conference Proceedings, Chapters in Books

22. P. Busch, G. Jaeger, “Welcher-Weg Experiment”, in: *Compendium of Quantum Physics, Concepts, Experiments, History and Philosophy*, eds. D. Greenberger, K. Hentschel, F. Weinert, Springer-Verlag, 2009, pp. 845–851. PhilSci Archive Item 4114
21. P. Busch, P. Falkenburg, “Heisenberg’s Uncertainty Relation”, in: *Compendium of Quantum Physics, Concepts, Experiments, History and Philosophy*, eds. D. Greenberger, K. Hentschel, F. Weinert, Springer-Verlag, 2009, pp. 281–283. PhilSci Archive Item 4112
20. P. Busch, P. Lahti, “Observable”, in: *Compendium of Quantum Physics, Concepts, Experiments, History and Philosophy*, eds. D. Greenberger, K. Hentschel, F. Weinert, Springer-Verlag, 2009, pp. 425–428. PhilSci Archive Item 4109
19. P. Busch, P. Lahti, “Lüders Rule”, in: *Compendium of Quantum Physics, Concepts, Experiments, History and Philosophy*, eds. D. Greenberger, K. Hentschel, F. Weinert, Springer-Verlag, 2009, pp. 356–358. PhilSci Archive Item 4111
18. P. Busch, P. Lahti, “Measurement Theory”, in: *Compendium of Quantum Physics, Concepts, Experiments, History and Philosophy*, eds. D. Greenberger, K. Hentschel, F. Weinert, Springer-Verlag, 2009, p. 374–379. PhilSci Archive Item 4108

17. P. Busch, “Effect”, in: *Compendium of Quantum Physics, Concepts, Experiments, History and Philosophy*, eds. D. Greenberger, K. Hentschel, F. Weinert, Springer-Verlag, 2009, p. 179–180. PhilSci Archive Item 4110
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9. P. Busch, “The Status of Quantum Mechanics in the Light of the Objectification Problem”, Plenary Talk. In: *The Interpretation of Quantum Mechanics - Where do we stand?* ed. L. Accardi. Istituto della Enciclopedia Italiana, Rome, 1994, pp. 205–217.
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7. P. Busch, “The Quantum Theory of Unsharp Measurements”, Plenary Talk. In: *Classical and Quantum Systems - Foundations and Symmetries*. Proceedings of the 2nd International Wigner Symposium, Goslar, Germany, 16-20 July 1991, eds. H.D. Doebner, W. Scherer, F.E. Schroeck. World Scientific, Singapore, 1993, pp. 19–28.
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3. P. Busch, “Unsharp Reality and the Question of Quantum Systems”, In: *Symposium on the Foundations of Modern Physics 1987*, eds. P. Lahti, P. Mittelstaedt, World Scientific, Singapore, 1987, pp. 105–125.

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1. P. Busch, “Can Quantum Theoretical Reality be Considered Sharp?”, In: *Recent Developments in Quantum Logic*, eds. P. Mittelstaedt, E.W. Stachow, Bibliographisches Institut, Mannheim, 1985, pp. 81–101.

C. Reviews, Book Reviews, Editorials, Essays

12. P. Busch, “Measurement of Quantum Mechanical Operators”, Translation of “Die Messung quantenmechanischer Operatoren” by E. Wigner (Z. Phys. **133**, 101–108 (1952)), to be submitted to Eur. Phys. J. (2010).
11. P. Busch, “Peter Mittelstaedt: List of Publications until 2010 – Including a List of Doctoral Students and Their Dissertation Titles”, *Found. Phys.* **40**, ... (2010). DOI: 10.1007/s10701-010-9466-7.
10. P. Busch, J. Pfarr, M.L. Ristig, E.W. Stachow, “Quantum, Matter, Spacetime: Peter Mittelstaedt’s Contributions to Physics and Its Foundations”, *Found. Phys.* **40**, ... (2010). DOI: 10.1007/s10701-010-9478-3.
9. P. Busch, “Between Physics and Philosophy—Festschrift for Peter Mittelstaedt on His 80th Birthday”, *Found. Phys.* **40**, ... (2010). DOI: 10.1007/s10701-010-9468-5.
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1. P. Busch, A. van der Merwe, *Editorial: Peter Mittelstaedt: Philosopher-Physicist*, *Found. Phys.* **19**, 789–791 (1989). DOI: 10.1007/BF01889300.

D. Books, Editorship

6. P. Busch (ed.), “Mittelstaedt Festschrift”, Double Issue in Honor of Peter Mittelstaedt’s 80th Birthday, *Found. Phys.* **40** (2010), September–October issues (ca. 500 pages).
5. P. Busch, D. Dieks, G. ’t Hooft (eds.), “Festschrift for Pekka Johannes Lahti on his 60th Birthday” *Found. Phys.* **39** (2009), June–July issues (ca. 360 pages).
4. P. Busch, M. Grabowski, P. Lahti, *Operational Quantum Physics*, Lecture Notes in Physics, Vol. m31, Springer-Verlag, Berlin, 1995 (230 pages). Second, Corrected Printing 1997.
3. P. Busch, P. Lahti, P. Mittelstaedt, *The Quantum Theory of Measurement*, Lecture Notes in Physics, Vol. m2, Springer-Verlag, Berlin, 1991 (165 pages). Second Revised Edition 1996 (181 pages).
2. P. Busch, P. Lahti, P. Mittelstaedt (eds.), Proceedings: *Symposium on the Foundations of Modern Physics 1993*, World Scientific, Singapore, 1993.
1. P. Busch, A. van der Merwe (eds.), “Special Issues in Honor of Peter Mittelstaedt’s 60th Birthday”, *Found. Phys.* **19** (1989), Nos. 7, 8, 9.