List of Publications

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Monographs

1. *Bayesian Philosophy of Science* (with Jan Sprenger). Oxford: Oxford University Press 2019.

2. *Bayesianische Erkenntnistheorie* (with Luc Bovens). Paderborn: mentis Verlag 2006 (= revised German translation of *Bayesian Epistemology*).

3. *Bayesian Epistemology* (with Luc Bovens). Oxford: Oxford University Press 2003.

Contributions to Journals and Books

1. Articles

1. The Wisdom of the Small Crowd: Myside Bias and Group Discussion (with Edoardo Baccini, Zoé Christoff and Rineke Verbrugge). *Journal of Artificial Societies and Social Simulation* 26 (4) 7 (2023).

2. Conjunctive Explanations: A Coherentist Appraisal (with B. Trpin), in: J. Schupbach and D. Glass (eds.): *Conjunctive Explanations: The Nature, Epistemology, and Psychology of Explanatory Multiplicity.* New York: Routledge 2023, pp.111–134.

3. The Open Systems View and the Everett Interpretation (with Michael E. Cuffaro). *Quantum Reports* 5(2): 418–425 (2023).

4. Deliberation and Confidence Change (with Nora Heinzelmann). *Synthese* 200, Article number: 42 (2022).

5. Bayes Nets and Rationality, in: M. Knauff and W. Spohn (eds.): *Handbook of Rationality.* Cambridge, MA: MIT Press, pp. 253–264.

6. The Logic of Partial Supposition (with Benjamin Eva). *Analysis* (2021), https://doi.org/10.1093/analys/anaa060.

7. Being Realist about Bayes, and the Predictive Processing Theory of Mind (with Matteo Colombo and Lee Elkin). *The British Journal for the Philosophy of Science* 72(1): 185–220 (2021).

8. Anchoring in Deliberations (with Soroush Rafiee-Rad). *Erkenntnis* 85: 1041–1069 (2020).

9. Conditionals and Testimony (with Peter J. Collins, Karolina Krzyżanowska, Gregory Wheeler and Ulrike Hahn). *Cognitive Psychology* 122: 101329 (2020).

10. Learning from Conditionals (with Benjamin Eva and Soroush Rafiee Rad). *Mind* 129(514): 461–508 (2020).

11. On the Origins of Old Evidence (with Benjamin Eva). *Australasian Journal of Philosophy* 98(3): 481–494 (2020).

12. Reasoning in Physics (with Benjamin Eva). *Synthese* (2020). https://doi.org/10.1007/s11229-020-02756-3.

13. The Similarity of Causal Structure (with Benjamin Eva and Reuben Stern). *Philosophy of Science* 86: 821–835 (2019).

14. Hawking Radiation and Analogue Experiments: A Bayesian Analysis (with Radin Dardashti, Karim Thébault and Erik Winsberg). *Studies in History and Philosophy of Modern Physics* 67: 1–11 (2019).

15. Assessing Scientific Theories: The Bayesian Approach (with Radin Dardashti), in: R. Dardashti, R. Dawid and K. Thébault (eds.): *Why Trust a Theory?* Cambridge: Cambridge University Press 2019, pp. 67–83.

16. Two Sides of Modus Ponens (with Reuben Stern). *The Journal of Philosophy* 115(11): 605–621 (2018).

17. Bayesian Argumentation and the Value of Logical Validity (with Benjamin Eva). *Psychological Review* 125(5): 806–821 (2018).

18. Understanding (With) Toy Models (with Dominik Hangleiter and Alexander Reutlinger). *The British Journal for the Philosophy of Science* 69(4): 1069–1099 (2018).

19. Intertheoretic Reduction, Confirmation, and Montague?s Syntax-Semantics Relation (with Kristina Liefke). *Journal of Logic, Language and Information* 27: 313–341 (2018).

20. When No Reason For Is A Reason Against (with Benjamin Eva). *Analysis* 78(3): 426–431 (2018).

21. The No Miracles Argument without the Base Rate Fallacy (with Richard Dawid). *Synthese* 195: 4063–4079 (2018).

22. Voting, Deliberation, and Truth (with Soroush Rafiee-Rad). *Synthese* 195: 1273–1293 (2018).

23. Bayesian Cognitive Science, Unification and Explanation (with Matteo Colombo). *The British Journal for the Philosophy of Science* 68(2): 451–484 (2017).

24. Simulating Trends in Artificial Influence Networks (with Hannah Übler). *Journal of Artificial Societies and Social Simulation* 19(1): 2 (2016).

25. A New Garber-Style Solution to the Problem of Old Evidence (with Branden Fitelson). *Philosophy of Science* 82(4): 712–717 (2015).

26. The No Alternatives Argument (with Richard Dawid and Jan Sprenger). *The British Journal for the Philosophy of Science* 66(1): 213–234 (2015).

27. Models, Mechanisms and Coherence (with Matteo Colombo and Robert van Iersel). *The British Journal for the Philosophy of Science* 66 (1): 181–212 (2015).

28. Imprecise Probabilities in Quantum Mechanics, in: C. Crangle et al. (eds.), *Foundations and Methods from Mathematics to Neuroscience: Essays Inspired by Patrick Suppes.* Stanford: CSLI Publications, 2015, pp. 77–82.

29. Mathematische Modelle in Philosophie und Wissenschaft, in: Deggendorfer Forum zur digitalen Datenanalyse e.V. Prozessoptimierung mit digitaler Datenanalyse: Ansätze und Methoden. Berlin: Erich Schmidt Verlag, 2015, pp. 11–25.

30. Why Are there Descriptive Norms? Because We Looked for Them (with Chiara Lisciandra and Ryan Muldoon). *Synthese* 191: 4409–4429 (2014).

31. On the Emergence of Norms (with Ryan Muldoon, Chiara Lisciandra, Cristina Bicchieri, and Jan Sprenger), *Politics, Philosophy and Economics* 13: 3–22 (2014).

32. Introduction (with U. Gähde), in: U. Gähde et al. (eds.): *Models, Simulations and the Reduction of Complexity.* Berlin: Akademie-Verlag 2013, pp. 1–8.

33. The Methodological Challenges of Complex Systems: Comments on Dirk Helbing, in: U. Gähde et al. (eds.): *Models, Simulations and the Reduction of Complexity.* Berlin: Akademie-Verlag 2013, pp. 81–86.

34. Judgment Aggregation and the Problem of Tracking the Truth (with Jan Sprenger), *Synthese* 187: 209–221 (2012).

35. Walter the Banker: The Conjunction Fallacy Reconsidered (with Wouter Meijs), *Synthese* 184: 73–87 (2012).

36. Confirmation and Reduction: A Bayesian Account (with Foad Dizadji-Bahmani and Roman Frigg), *Synthese* 179(2): 321–338 (2011).

37. Bayesian Epistemology (with Jan Sprenger), in: S. Bernecker and D. Pritchard (eds.), *Routledge Companion to Epistemology.* London: Routledge 2011, pp. 609–620.

38. Mathematics and Statistics in the Social Sciences (with Jan Sprenger), in: J. Zamora-Bonilla et al. (eds.), *The SAGE Handbook of the Philosophy of Social Sciences.* London: Sage Publications 2011, pp. 594–612.

39. Computersimulationen in der Angewandten Politischen Philosophie – Ein Beispiel (with Claus Beisbart), in: C.F. Gethmann (ed.), *Deutsches Jahrbuch Philosophie, Vol. 2: Lebenswelt und Wissenschaft* 2011, pp. 1151–1162.

40. Introduction (with Claus Beisbart), in: C. Beisbart and S. Hartmann (eds.), *Probabilities in Physics.* Oxford: Oxford University Press 2011, pp. 1–21.

41. Who's Afraid of Nagelian Reduction? (with Foad Dizadji-Bahmani and Roman Frigg), *Erkenntnis* 73(3): 393–412 (2010).

42. The Weight of Competence under a Realistic Loss Function (with Jan Sprenger), *Logic Journal of the IGPL* 18: 346–352 (2010).

43. Welfarist Evaluations of Decision Rules under Interstate Utility Dependencies (with Claus Beisbart), *Social Choice and Welfare* 34: 315–344 (2010).

44. Reliable Methods of Judgment Aggregation (with Jan Sprenger and Gabriella Pigozzi), *Journal of Logic and Computation* 20: 603–617 (2010).

45. Bayesian Epistemology (with Alan Hájek), in: J. Dancy, E. Sosa, and M. Steup (eds.), *A Companion to Epistemology.* Oxford: Blackwell ^{2}2010, 93–106.

46. Formal and Empirical Methods in Philosophy of Science (with Vincenzo Crupi), in: F. Stadler et al. (eds.), *The Present Situation in the Philosophy of Science.* Berlin: Springer 2010, 87–98.

47. Entanglement, Upper Probabilities and Decoherence in Quantum Mechanics (with Patrick Suppes), in: M. Suárez et al. (eds.), *EPSA Philosophical Issues in the Sciences: Launch of the European Philosophy of Science Association,* Vol. 2. Berlin: Springer 2010, 93–103.

48. Conventional and Objective Invariance: Debs and Redhead on Symmetry (with Sebastian Lutz), *Metascience* 19: 15–23 (2010).

49. Consensual Decision-Making Among Epistemic Peers (with Carlo Martini and Jan Sprenger), *Episteme* 6: 110–129 (2009).

50. Modeling in Philosophy of Science, in: M. Frauchiger and W.K. Essler (eds.), *Representation, Evidence, and Justification: Themes from Suppes (Lauener Library of Analytical Philosophy; vol.* 1*).* Frankfurt: ontos Verlag 2008, pp. 95–121.

51. Modeling High-Temperature Superconductors: Correspondence at Bay?, in L. Soler, H. Sankey, and P. Hoyningen-Huene (eds.), *Rethinking Scientific Change. Stabilities, Ruptures, Incommensurabilities?* Berlin: Springer 2008, pp. 107–128.

52. Welfare, Voting, and the Constitution of a Federal Assembly (with Luc Bovens), in: M. C. Galavotti, R. Scazzieri and P. Suppes (eds.), *Reasoning, Rationality and Probability.* Stanford: CSLI Publications 2008, pp. 61–76.

53. An Impossibility Result for Coherence Rankings (with Luc Bovens), *Philosophical Studies* 128: 77–91 (2006).

54. Modeling Partially Reliable Information Sources: A General Approach Based on Dempster-Shafer Theory (with Rolf Haenni), *Information Fusion* 7: 361–379 (2006).

55. Why There Cannot be a Single Probabilistic Measure of Coherence (with Luc Bovens), *Erkenntnis* 63: 361–374 (2005).

56. Coherence and the Role of Specificity: A Response to Meijs and Douven (with Luc Bovens), *Mind* 114: 365–369 (2005).

57. A Utilitarian Assessment of Alternative Decision Rules in the Council of Ministers (with Claus Beisbart and Luc Bovens), *European Union Politics* 6(4): 395–418 (2005).

58. Transdisziplinarität – Eine Herausforderung für die Wissenschaftstheorie, in: M. Carrier and G. Wolters (eds.), *Homo Sapiens und Homo Faber.* Berlin: de Gruyter 2005, 335–343.

59. Normativität und Bayesianismus (with Ludwig Fahrbach), in: B. Gesang (ed.), *Deskriptive oder normative Wissenschaftstheorie.* Frankfurt: ontos-Verlag 2005, 177–204.

60. Artificial Intelligence and its Methodological Implications, in: F. Stadler (ed.), *Induction and Deduction in the Sciences* (= Vienna Circle Institute Yearbook 11/2003). Dordrecht: Kluwer 2004, 217–223.

61. Solving the Riddle of Coherence (with Luc Bovens), *Mind* 112: 601–634 (2003).

62. Too Odd (Not) to Be True: A Reply to Olsson (with Luc Bovens, Branden Fitelson and Josh Snyder), *British Journal for the Philosophy of Science* 53: 539–563 (2002).

63. On Correspondence, *Studies in History and Philosophy of Modern Physics* 33B: 79–94 (2002).

64. Bayesian Networks and the Problem of Unreliable Instruments (with Luc Bovens), *Philosophy of Science* 69: 29–72 (2002).

65. Bayesian Networks in Philosophy (with Luc Bovens), in: B. Löwe et al. (eds.), *Foundations of the Formal Sciences II: Applications of Mathematical Logic in Philosophy and Linguistics.* Dordrecht: Kluwer 2002, pp. 39–46.

66. Kohärenter explanatorischer Pluralismus, in: W. Hogrebe (ed.), *Grenzen und Grenzüberschreitungen.* Putney, VT: Sinclair Press 2002, 141–150.

67. Effective Field Theories, Reduction and Scientific Explanation, *Studies in History and Philosophy of Modern Physics* 32B: 267–304 (2001).

68. Mechanisms, Coherence, and Theory Choice in the Cognitive Neurosciences, in: P. Machamer et al. (eds.), *Theory and Method in the Neurosciences.* Pittsburgh: Pittsburgh University Press 2001, pp. 70–80.

69. Belief Expansion, Contextual Fit and the Reliability of Information Sources (with Luc Bovens), in: V. Akman et al. (eds.), *Modeling and Using Context*, Berlin: Springer 2001, pp. 421–424.

70. Physik ist Grundlage der Technik und Teil der Kultur (with Jürgen Mittelstraß), in: Deutsche Physikalische Gesellschaft (ed.), *Physik: Themen, Bedeutung und*

Perspektiven physikalischer Forschung. Bonn: DPG 2000, 185-188. English translation: Physics is a Part of Culture and the Basis of Technology", in: Deutsche Physikalische Gesellschaft (ed.), *Physics – Physics Research: Topics, Significance and Prospects.* Bonn: DPG 2002, 195–198.

71. Models and Stories in Hadron Physics, in: M. Morgan and M. Morrison (eds.), *Models as Mediators*, Cambridge: Cambridge University Press 1999, pp. 326–346.

72. Über die heuristische Funktion des Korrespondenzprinzips, in: J. Mittelstraß (ed.), *Die Zukunft des Wissens*, Konstanz: Universitätsverlag Konstanz 1999, pp. 500–506.

73. Idealization in Quantum Field Theory, in: N. Shanks (ed.), *Idealization in Contemporary Physics* (= Poznań Studies in the Philosophy of Science and the Humanities 64), Amsterdam: Rodopi 1998, pp. 99–122.

74. Modelling and the Aims of Science, in: P. Weingartner et al. (eds.), *The Role of Pragmatics in Contemporary Philosophy: Contributions of the Austrian Ludwig Wittgenstein Society, Vol. 5*, Wien und Kirchberg: Digi-Buch 1997, pp. 380–385.

75. Verfolgt die Teilchenphysik ein reduktionistisches Programm?, in: G. Meggle et al. (eds.), *Perspectives in Analytical Philosophy*, Berlin: de Gruyter 1997, pp. 374–380.

76. The World as a Process: Simulations in the Natural and Social Sciences, in: R. Hegselmann et al. (eds.), *Modelling and Simulation in the Social Sciences from the Philosophy of Science Point of View*, Theory and Decision Library. Dordrecht: Kluwer 1996, pp. 77–100.

77. Models as a Tool for Theory Construction: Some Strategies of Preliminary Physics, in: W. Herfel et al. (eds.), *Theories and Models in Scientific Processes* (= Poznań Studies in the Philosophy of Science and the Humanities 44). Amsterdam: Rodopi 1995, pp. 49–67.

2. Proceedings

1. Confirmation, Coherence and the Strength of Arguments (with Borut Trpin), in: CogSci 2023 Proceedings, Sydney 2023, pp. 1473–1479.

2. Coherence of Information: What It Is and Why It Matters (with Borut Trpin), in: CogSci 2023 Proceedings, Sydney 2023, pp. 3617–3623.

3. Causal Structure and Argumentative Value (with Ulrike Hahn, Borut Trpin, Marko Tesic, Anita Keshmirian and Corina Strößner, in: CogSci 2023 Proceedings, Sydney 2023, p. 3773.

4. Perceived Causal Strength in Chains vs. Common Causes (with Anita Keshmirian, Babak Hemmatian and Ulrike Hahn), in: CogSci 2023 Proceedings, Sydney 2023, p. 3800.

5. The Myside Bias in Argument Evaluation: A Bayesian Model (with Edoardo Baccini), in: CogSci 2022 Proceedings, Toronto 2022, 1512–1518.

6. How to Revise Beliefs from Conditionals: A New Proposal (with Ulrike Hahn), in CogSci 2021 Proceedings, Vienna 2021, 98–104.

7. A New Approach to Testimonial Conditionals (with Ulrike Hahn), in CogSci 2020 Proceedings, Toronto 2020, 981–986; https://cognitivesciencesociety.org/cogsci20/papers/0173/0173.pdf.

8. A New Probabilistic Explanation of the Modus Ponens–Modus Tollens Asymmetry (with Benjamin Eva and Henrik Singmann), in CogSci 2019 Proceedings, Montreal 2019, 289–294; https://mindmodeling.org/cogsci2019/papers/0070/0070.pdf.

9. Rank Aggregation and Belief Revision Dynamics (with Igor Volzhanin, Ulrike Hahn and Dell Zhang), in: CogSci 2017 Proceedings, London 2017, 3454–3459; https://mindmodeling.org/cogsci2017/papers/0651/paper0651.pdf.

10. Judgment Aggregation and the Problem of Truth-Tracking (with Gabriella Pigozzi), in: Proceedings of the 11th *Conference on Theoretical Aspects of Rationality and Knowledge (TARK XI)*, Brussels 2007, 248–252.

11. Aggregation in Multi-Agent Systems and the Problem of Truth-Tracking (with Gabriella Pigozzi), in: Proceedings of *The Sixth International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS 07)*, Honolulu, Hawai'i, USA, 674–676.

12. Merging Judgments and the Problem of Truth-Tracking (with Gabriella Pigozzi), in: U. Endriss and J. Lang (eds.), *Computational Social Choice 2006*. Amsterdam 2006, 408–421.

13. Welfarism and the Assessments of Social Decision Rules (with Claus Beisbart), in: U. Endriss and J. Lang (eds.), *Computational Social Choice 2006*. Amsterdam 2006, 35–48.

14. A Probabilistic Theory of the Coherence of an Information Set (with Luc Bovens), in: A. Beckermann et al. (eds.), *Argument & Analysis: Proceedings of the 4th International Congress of the Society for Analytical Philosophy.* Bielefeld 2001; www.gap-im-netz.de/gap4Konf/Proceedings4/Proc.htm, 195–206.

15. How to Expand Your Beliefs in an Uncertain World: A Probabilistic Model (with Luc Bovens), in: G. Kern-Isberner et al. (eds.), *KI-2001 Workshop: Uncertainty in Artificial Intelligence.* Informatik-Berichte 287-8/2001. Hagen 2001. (12 pp)

16. Coherence, Belief Expansion and Bayesian Networks (with Luc Bovens), in: C. Baral and M. Truszczynski (eds.), *Proceedings of the 8th International Workshop on Non-Monotonic Reasoning, NMR'2000*, Breckenridge 2000; www.cs.engr.uky.edu/nmr2000/proceedings.html. (6 pp)

17. Bayesian Networks in Epistemology and Philosophy of Science (with Luc Bovens), in: D. Pearce et al. (eds.), *Scientific Reasoning in AI and Philosophy of Science: Proceedings of the Workshop at the Conference ECAI 2000*, Berlin 2000. (10 pp)

3. Encyclopedia Articles

1. Wissenschaftstheorie, in: J. Nida-Rümelin, I. Spiegel and M. Tiedemann (eds.): *Handbuch Philosophie und Ethik. Band 2: Disziplinen und Themen.* Paderborn: UTB/Schönigh 2015, pp. 22–28.

2. Modell (with Gereon Wolters), in: J. Mittelstraß (ed.), *Enzyklopädie Philosophie und Wissenschaftstheorie*, vol. 5., Stuttgart: Metzler ^{2}2013.

3. kohärent/Kohärenz; Kohärenz, explanatorische; Kohärenz, probabilistische, in: J. Mittelstraß (ed.), *Enzyklopädie Philosophie und Wissenschaftstheorie*, vol. 4. Stuttgart: Metzler ^{2}2010, pp. 250–258.

4. Modelle, in: H.-J. Sandkühler (ed.), *Enzyklopädie Philosophie*, vol. 2. Hamburg: Meiner ^{2}2010, pp. 1627–1632.

5. Granger, Gilles Gaston, in: J. Mittelstraß (ed.), *Enzyklopädie Philosophie und Wissenschaftstheorie*, vol. 3. Stuttgart: Metzler ^{2}2008, pp. 197–198.

6. Models in Science (with Roman Frigg), *The Stanford Encyclopedia of Philosophy* (Spring 2006 Edition, substantially revised and updated for the 2020 Edition).

7. Scientific Models (with Roman Frigg), in: S. Sarkar et al. (eds.), *The Philosophy of Science: An Encyclopedia*, vol. 2, New York: Routledge 2005, pp. 740–749.

8. Erhaltungssätze (with Klaus Mainzer), in: J. Mittelstraß (ed.), *Enzyklopädie Philosophie und Wissenschaftstheorie*, vol. 2., Stuttgart: Metzler ^{2}2005, pp. 268–270.

9. Vacuum, in: H. Gründer et al. (eds.), *Historisches Wörterbuch der Philosophie.* Basel: Schwabe 2001, pp. 527–530.

10. Modelle (with Daniela Bailer-Jones), in: H.-J. Sandkühler et al. (eds.), *Enzyklopädie der Philosophie*, Hamburg: Meiner 1999, pp. 854–859.

11. Simulation, in: J. Mittelstraß (ed.), *Enzyklopädie Philosophie und Wissenschaftstheorie*, vol. 3. Stuttgart: Metzler 1995, pp. 805–807.

4. Book Reviews

1. M. Morrison: Reconstructing Reality: Models, Mathematics, and Simulations (with Alexander Reutlinger), *BJPS Review of Books* (online only), 2016.

2. M. Strevens: Depth: An Account of Scientific Explanation (with Jonah Schupbach), *Notre Dame Philosophical Reviews*, June 2010.

3. P. Lipton: Inference to the Best Explanation (2nd edition) (with Lefteris Farmakis), *Notre Dame Philosophical Reviews*, May 2005.

4. J. Cushing: Philosophical Concepts in Physics, *Erkenntnis* 52: 133–137 (2000).

5. Miscellania

1. Models, Unification and Simulations: Margaret C. Morrison (1954–2021) (with Brigitte Falkenburg). *Journal for General Philosophy of Science* (2021) https://doi.org/10.1007/s10838-021-09557-3.

2. A Conversation with Stephan Hartmann, in: P. Barrieu (ed.): *Dialogues Around Models and Uncertainty An Interdisciplinary Perspective.* Singapore: World Scientific 2020, pp. 331–347.

Edited Volumes and Special Issues

1. *Decision Theory and the Future of Artificial Intelligence*(ed. with H. Price and Y. Liu). Berlin: Springer 2022. (Reprint of the special issue of *Synthese* mentioned below with the same title.)

2. Decision Theory and the Future of Artificial Intelligence, *Synthese* (2021). Special issue ed. with H. Price and Y. Liu (https://doi.org/10.1007/s11229-021-03316-z).

3. Reasoning in Physics, *Synthese* (2020). Special issue ed. with B. Eva (https://doi.org/10.1007/s11229-020-02756-3).

4. Computational Modeling in Philosophy, *Synthese* (2020). Topical Collection ed. with S. Scheller and C. Merdes.

5. The Progress of Science, *Studies in History and Philosophy of Science* 45 (2014). Special issue ed. with R. de Langhe and J. Sprenger.

6. *Models, Simulations and the Reduction of Complexity* (ed. with U. Gähde and J. H. Wolf). Berlin: Akademie-Verlag 2013.

7. Formal Epistemology Meets Experimental Philosophy, *Synthese* 190:8 (2013). Special issue ed. with C. Lisciandra and E. Machery.

8. The Future of Philosophy of Science, *The European Journal for Philosophy of Science* 2:2 (2012). Special issue ed. with J. Sprenger.

9. *Probabilities, Laws, and Structures* (ed. with D. Dieks, W. Gonzales, M. Stöltzner, and M. Weber). Berlin: Springer 2012.

10. *EPSA Philosophy of Science: Amsterdam 2009* (ed. with H. de Regt and S. Okasha). Berlin: Springer 2012.

11. *Probabilities in Physics* (ed. with C. Beisbart). Oxford: Oxford University Press 2011.

12. Reduction, Emergence and Physics, *Foundations of Physics* 41:6 (2011). Special issue ed. with G. Valente.

13. *Handbook of the History and Philosophy of Logic, vol. 10: Inductive Logic* (ed. with D. Gabbay and J. Woods). Amsterdam: Elsevier/North-Holland 2011.

14. *Explanation, Prediction and Confirmation* (ed. with D. Dieks, W. Gonzales, F. Stadler, T. Uebel, and M. Weber). Berlin: Springer 2011.

15. Models and Simulations 2, *Synthese* 180:1 (2011). Special issue ed. with R. Frigg and C. Imbert.

16. Reduction and the Special Sciences, *Erkenntnis* 73 (3). Special issue ed. with M. Colyvan.

17. *The Present Situation in the Philosophy of Science* (ed. with F. Stadler, D. Dieks, W. Gonzales, T. Uebel, and M. Weber). Berlin: Springer 2010.

18. Formal Modeling in Social Epistemology. *Logic Journal of the IGPL* 18(2) (2010). Special issue ed. with C. Martini and J. Sprenger.

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20. *Nancy Cartwright's Philosophy of Science* (ed. by S. Hartmann, L. Bovens and C. Hoefer). London: Routledge 2008 (paperback 2010).

21. Probabilities in Quantum Mechanics. *Studies in History and Philosophy of Modern Physics* 38 (2) (2007). Special issue ed. with R. Frigg.

22. Bayesian Epistemology. *Synthese* 156 (3) (2007). Special issue ed. with L. Bovens.

23. Causality, Uncertainty and Ignorance. *Minds and Machines* 16(3) (2006). Special issue ed. with R. Haenni.

24. *Coherence, Truth and Testimony* (ed. with Ulrich Gähde). Berlin: Springer 2006. (Reprint of the special issue of *Erkenntnis* mentioned below.)

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In Print

1. Why Coherence Matters (with Borut Trpin). To appear in *The Journal of Philosophy.*

Submitted

1. The Open Systems View (with Michael E. Cuffaro).

2. Confirmation by Best Explanation: A Bayesian Justification of IBE (with Marko Tesic and Benjamin Eva).

3. Reasonable Doubt and Alternative Hypotheses: A Bayesian Analysis (with Ulrike Hahn).

4. Prospect Theory and the Wisdom of the Inner Crowd.

Books in Preparation

1. *Reasoning in Physics.* Under contract with Cambridge University Press (Cambridge Elements series).

2. *Open Systems: Physics, Metaphysics, and Methodology* (ed. with M.Cuffaro). Under contract with Oxford University Press.

Physics Publications

1. Journal Articles

1. Generalized Dicke States. *Quantum Information and Computation* 16, No. 15 & 16: 1333–1348 (2016).

2. The Chromodielectric Soliton Model: Quark Self-Energy and Hadron Bags (with Lawrence Wilets and Ping Tang). *Physical Review* C55: 2067–2077 (1997).

2. Popular Scientific and Pedagogical Papers

1. Kopenhagen contra Bohm – eine Herausforderung für den Realismus? (with Rainer Müller), *Praxis der Naturwissenschaften – Physik*, Heft 4: 12–17 (1999).

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3. Modelle und Forschungsdynamik: Strategien der zeitgenössischen Physik, *Praxis der Naturwissenschaften – Physik* 1/95: 33–41 (1995).

3. Book Reviews

1. G. Johnson: Strange Beauty. Murray Gell-Mann and the Revolution in 20th-Century Physics, *Physik Journal* 1: 236 (2002).

2. F. Dyson: The Sun, the Genom and the Internet, *Physikalische Blätter* 56 (Heft 10): 69 (2000).

3. J. Gleick: Richard Feynman – Leben und Werk des genialen Physikers, *Spektrum der Wissenschaft*, Juli 1995: 118–19.

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Theses

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2. *The Epistemological Status of the Conservation Principles of Physics.* Unpublished Master Thesis in Philosophy, University of Giessen, 1991. (135 pp; in German)

3. *Sea- and Valence-Quark Correlations in the Nucleon.* Unpublished Diploma Thesis in Physics, University of Giessen, 1991. (146 pp; in German)