

# Partial bibliography on theism and physical cosmology

Hans Halvorson

September 5, 2011

## References

- [1] A. Ashtekar. Loop quantum cosmology: an overview. *General Relativity and Gravitation*, 41(4):707–741, 2009.
- [2] EW Barnes. Discussion on the evolution of the universe. *Nature*, 128(3234):719–722, 1931.
- [3] S.M. Barr. *Modern physics and ancient faith*. University of Notre Dame Press, 2003.
- [4] M. Bojowald. Quantum gravity and the big bang. Arxiv preprint astro-ph/0309478, 2003.
- [5] M. Bojowald. The early universe in loop quantum cosmology. In *Journal of Physics: Conference Series*, volume 24, page 77. IOP Publishing, 2005.
- [6] M. Bojowald. Universe scenarios from loop quantum cosmology. *Annalen der Physik*, 15(4-5):326–341, 2006.
- [7] M. Bojowald. Singularities and quantum gravity. Arxiv preprint gr-qc/0702144, 2007.
- [8] M. Bojowald. Follow the bouncing universe. *Scientific American*, 299(4):44–51, 2008.
- [9] M. Bojowald. Harmonic cosmology: how much can we know about a universe before the big bang? *Proceedings of the Royal Society of London-A*, 464(2096):2135–2150, 2008.
- [10] M. Bojowald. Quantum nature of cosmological bounces. *General Relativity and Gravitation*, 40(12):2659–2683, 2008.
- [11] M. Bojowald and H. Morales-Técotl. Cosmological applications of loop quantum gravity. *The Early Universe and Observational Cosmology*, pages 421–462, 2004.
- [12] Martin Bojowald. *Zurück vor den Urknall*. Fischer Verlag, Frankfurt am Main, 2009. English translation: *Once before time: a whole story of the universe*.
- [13] David Burrell et al., editors. *Creation and the God of Abraham*. Cambridge University Press, New York, 2010.
- [14] J. Byl. The role of belief in modern cosmology. <http://www.twu.cc/byl/belief.fin.doc>.
- [15] J. Byl. *God and cosmos*. Banner of Truth Trust, Carlisle, PA, 2001.

- [16] Lawrence Cahoon. Arguments from nothing: God and quantum cosmology. *Zygon*, 44(4):777–796, 2009.
- [17] Bernard Carr, editor. *Universe or multiverse*. Cambridge Univ Pr, 2007.
- [18] S. Carroll. Why (almost all) cosmologists are atheists. *Faith and Philosophy*, 22(5):622, 2005.
- [19] Sean Carroll. Does the universe need God? In James Stump and Alan Padgett, editors, *The Blackwell Companion to Science and Christianity*. Wiley-Blackwell, 2012.
- [20] W. Carroll. Thomas Aquinas and big bang cosmology. *Sapientia*, 95:53–73, 1998.
- [21] W.E. Carroll. Big bang cosmology, quantum tunneling from nothing, and creation. *Laval théologique et philosophique*, 44(1988):59–75, 1988.
- [22] G. Cleaver. Before the big bang: string theory, God, and the origin of the universe, 2006. Metanexus.
- [23] I.B. Cohen. *Isaac Newton's papers and letters on natural philosophy and related documents*. Harvard University Press, Cambridge, MA, 1978.
- [24] Peter Coles. *Cosmology: a very short introduction*. Oxford Univ Pr, 2001.
- [25] R. Collins. The argument from design and the many-worlds hypothesis. In W.L. Craig, editor, *Philosophy of Religion: a Reader and Guide*, pages 130–148. Rutgers University Press, 2002.
- [26] P. Copan and W.L. Craig. *Creation out of nothing: a biblical, philosophical, and scientific exploration*. Baker Academic, Grand Rapids, MI, 2004.
- [27] W. Craig. Theism and physical cosmology. In Philip Quinn and Charles Taliaferro, editors, *A companion to philosophy of religion*, page 419. Wiley-Blackwell, 1999.
- [28] W.L. Craig. 'What place, then, for a creator?': Hawking on God and creation. *British Journal for the Philosophy of Science*, 41(4):473–491, 1990.
- [29] W.L. Craig. God and the initial cosmological singularity: a reply to Quentin Smith. *Faith and Philosophy*, 9:238–48, 1992.
- [30] W.L. Craig. The Origin and Creation of the Universe: a reply to Adolf Grünbaum. *British Journal for the Philosophy of Science*, 43(2):233–240, 1992.
- [31] W.L. Craig. Prof. Grünbaum on creation. *Erkenntnis*, 40(3):325–341, 1994.
- [32] W.L. Craig. Hartle-Hawking cosmology and atheism. *Analysis*, 57(4):291–295, 1997.
- [33] W.L. Craig. The ultimate question of origins: God and the beginning of the universe. *Astrophysics and Space Science*, 269:721–738, 1999.
- [34] W.L. Craig. Naturalism and cosmology. In W.L. Craig and J.P. Moreland, editors, *Naturalism: a critical analysis*, pages 215–252. Routledge, NY, 2000.
- [35] W.L. Craig. J. Howard Sobel on the Kalam Cosmological Argument. *Canadian Journal of Philosophy*, 36(4):565–584, 2007.

- [36] W.L. Craig and Q. Smith. *Theism, atheism, and big bang cosmology*. Oxford University Press, NY, 1995.
- [37] R.J. Deltete. Hawking on God and creation. *Zygon*, 28(4):485–506, 1993.
- [38] R.J. Deltete and R.A. Guy. Hartle-Hawking cosmology and unconditional probabilities. *Analysis*, 57(4):304, 1997.
- [39] W.B. Drees. *Beyond the big bang: quantum cosmologies and God*. Open Court, Chicago, IL, 1990.
- [40] J. Earman. *Bangs, crunches, whimpers, and shrieks: singularities and acausalities in relativistic spacetimes*. Oxford University Press, NY, 1995.
- [41] A.S. Eddington. *New pathways in science*. Macmillan, NY, 1935.
- [42] G.F.R. Ellis. The theology of the anthropic principle. In R. J. Russell, N. Murphy, and C. J. Isham, editors, *Quantum cosmology and the laws of nature: scientific perspectives on divine action*, pages 367–405. Vatican Observatory, Vatican City State, 1993.
- [43] G.F.R. Ellis. Issues in the philosophy of cosmology. In J. Butterfield and J. Earman, editors, *Philosophy of Physics*, pages 1183–1285. North Holland, 2006.
- [44] G.F.R. Ellis. Multiverses and ultimate causation. In Fraser Watts, editor, *Creation: Law and Probability*, page 59. Ashgate Publishing, 2008.
- [45] John Farrell. *The day without yesterday: Lemaitre, Einstein, and the birth of modern cosmology*. Thunder’s Mouth Press, 2005.
- [46] H. Friedrich and J. Frauendiener. *The conformal structure of spacetime: geometry, analysis, numerics*. Lecture Notes in Physics. Springer, NY, 2002.
- [47] G. Gasperini et al. Pre-big-bang in string cosmology. *Astroparticle Physics*, 1(3):317–339, 1993.
- [48] M. Gasperini. *The universe before the big bang: cosmology and string theory*. Springer, NY, 2008.
- [49] M. Gasperini and G. Veneziano. The pre-big bang scenario in string cosmology. *Physics Reports*, 373(1-2):1–212, 2003.
- [50] O. Godart and M. Heller. Un travail inconnu de Georges Lemaître. *Revue d’Histoire des Sciences*, 31:345–359, 1978.
- [51] A. Grünbaum. The pseudo-problem of creation in physical cosmology. *Philosophy of Science*, 56(3):373–394, 1989.
- [52] A. Grünbaum. Creation as a Pseudo-explanation in current physical cosmology. *Erkenntnis*, 35(1):233–254, 1991.
- [53] A. Grünbaum. Some comments on William Craig’s ‘creation and big bang cosmology’. *Philosophia naturalis*, 31:225–36, 1994.
- [54] A. Grünbaum. Theological misinterpretations of current physical cosmology. *Foundations of Physics*, 26:523–543, 1996.

- [55] A. Grünbaum. A new critique of theological interpretations of physical cosmology. *The British Journal for the Philosophy of Science*, 51(1):1, 2000.
- [56] A. Grünbaum. The poverty of theistic cosmology. *The British Journal for the Philosophy of Science*, 55(4):561, 2004.
- [57] V.G. Gurzadyan and R. Penrose. Concentric circles in WMAP data may provide evidence of violent pre-big-bang activity. <http://arxiv.org/abs/1011.3706>, 2010.
- [58] Deborah Haarsma. Christian and atheist responses to Big Bang cosmology. In M. Stewart, editor, *Science and religion in dialogue*, pages 131–149. Wiley-Blackwell, 2008.
- [59] I. Hacking. The inverse gambler’s fallacy: the argument from design. The anthropic principle applied to wheeler universes. *Mind*, 96(383):331, 1987.
- [60] M. Heller. Cosmological singularity and the creation of the universe. *Zygon*, 35(3):665–685, 2000.
- [61] M. Heller. *Ultimate explanations of the universe*. Springer, NY, 2009.
- [62] Michael Heller. *Creative Tension: Essays on Science and Religion*. Templeton Foundation Press, Radnor, PA, 2003.
- [63] N.S. Hetherington. *Cosmology: historical, literary, philosophical, religious, and scientific perspectives*. Garland, NY, 1993.
- [64] R.D. Holder. Fine-tuning, multiple universes and theism. *Nous*, 36(2):295–312, 2002.
- [65] R.D. Holder. *God, the multiverse, and everything: modern cosmology and the argument from design*. Ashgate, 2004.
- [66] F. Hoyle. *Home is where the wind blows: chapters from a cosmologist’s life*. University Science Books, Mill Valley, CA, 1994.
- [67] C.J. Isham. Quantum theories of the creation of the universe. In R. J. Russell, N. Murphy, and C. J. Isham, editors, *Quantum cosmology and the laws of nature: scientific perspectives on divine action*, pages 49–89. Vatican Observatory, Vatican City State, 1993.
- [68] C. Juhl. Fine-tuning is not surprising. *Analysis*, 66(4):269, 2006.
- [69] B. Kanitscheider. *Philosophisch-historische Grundlagen der physikalischen Kosmologie*. Kohlhammer, 1974.
- [70] B. Kanitscheider. Does physical cosmology transcend the limits of naturalistic reasoning? In Paul Weingartner and Georg Dorn, editors, *Studies on Mario Bunge’s Treatise*, pages 337–350. Rodopi, 1990.
- [71] B. Kanitscheider. *Kosmologie: Geschichte und Systematik in philosophischer Perspektive*. Reclam, 1991.
- [72] Douglas Kelly. *Creation and change: Genesis 1.1–2.4 in the light of changing scientific paradigms*. Mentor (Christian Focus Publications), Ross-shire, Scotland, 2000.
- [73] J. Khoury, B.A. Ovrut, P.J. Steinhardt, and N. Turok. Ekpyrotic universe: Colliding branes and the origin of the hot big bang. *Physical Review D*, 64(12):123522, 2001.

- [74] C. Kiefer. Quantum Gravity – A Short Overview. *Quantum Gravity*, pages 1–13, 2007.
- [75] Claus Kiefer. *Der Quanten-kosmos*. Fischer, 2008.
- [76] J. Koperski. Should we care about fine-tuning? *The British Journal for the Philosophy of Science*, 56(2):303, 2005.
- [77] K.J. Kraay. Theism, possible worlds, and the multiverse. *Philosophical studies*, 147(3):355–368, 2010.
- [78] H. Kragh. *Cosmology and controversy: the historical development of two theories of the universe*. Princeton University Press, 1999.
- [79] H. Kragh. *Matter and spirit in the universe: scientific and religious preludes to modern cosmology*. Imperial College Press, London, 2004.
- [80] H. Kragh. Contemporary history of cosmology and the controversy over the multiverse. *Annals of Science*, 66(4):529–553, 2009.
- [81] H. Kragh. Continual fascination: the oscillating universe in modern cosmology. *Science in Context*, 22(04):587–612, 2009.
- [82] Helge Kragh. *Conceptions of cosmos: from myths to the accelerating universe*. Oxford Univ Pr, 2007.
- [83] D. Lambert. *Un atome d'univers: la vie et l'oeuvre de Georges Lemaître*. Lessius, 2000.
- [84] Georges Lemaître. *L'hypothèse de l'atome primitif*. Editions Culture et Civilisation, 1972.
- [85] J. Leslie. No inverse gambler's fallacy in cosmology. *Mind*, 97(386):269, 1988.
- [86] J. Leslie. *Universes*. Routledge, 1996.
- [87] John Leslie. How to draw conclusions from a fine-tuned cosmos. In Robert Russell et al., editors, *Physics, philosophy, and theology: a common quest for understanding*, pages 304–. Vatican Observatory Press, 1988.
- [88] John Leslie, editor. *Modern cosmology and philosophy*. Prometheus books, 1998.
- [89] John Leslie. Cosmology and theology. In Charles Tandy, editor, *Death and anti-death*, volume 6, pages 127–156. Ria University Press, Palo Alto, CA, 2008.
- [90] J.P. Luminet. *L'invention du Big Bang*. Ed. du Seuil, 2004.
- [91] N.A. Manson and M.J. Thrush. Fine-tuning, multiple universes, and the “this universe” objection. *Pacific Philosophical Quarterly*, 84(1):67–83, 2003.
- [92] N. Markosian. On the argument from quantum cosmology against theism. *Analysis*, 55(4):247, 1995.
- [93] E.L. Mascall. *Christian theology and natural science: some questions on their relations*. Longmans, Green, & Co., London, 1956.
- [94] C.S. McConnell. Twentieth-century cosmologies. In Gary Ferngren, editor, *Science and religion: a historical introduction*, pages 314–321. Johns Hopkins Univ Pr, 2002.

- [95] PJ McGrath. The inverse gambler's fallacy and cosmology—a reply to Hacking. *Mind*, 97(386):265, 1988.
- [96] E. McMullin. How should cosmology relate to theology? In Arthur Peacocke, editor, *The sciences and theology in the twentieth century*, pages 17–57. Notre Dame University Press, Chicago, IL, 1981.
- [97] Ernan McMullin. Cosmology and religion. In Noriss Hetherington, editor, *Cosmology: historical, literary, philosophical, religious, and scientific perspectives*, pages 581–606. Taylor and Francis, 1993.
- [98] Jacques Merleau-Ponty. *Cosmologie du XX. Siècle*. Gallimard, 1965.
- [99] Jacques Merleau-Ponty. *La science de l'univers à l'âge du positivisme*. Vrin, 1983.
- [100] Cyrille Michon. *Thomas d'Aquin et la controverse sur L'Éternité du monde*. Flammarion, 2004.
- [101] C.W. Misner. Absolute zero of time. *Physical Review*, 186(5):1328–1333, 1969.
- [102] B. Monton. God, fine-tuning, and the problem of old evidence. *The British Journal for the Philosophy of Science*, 57(2):405, 2006.
- [103] Wes Morriston. Creation ex nihilo and the big bang. *Philo*, 5, 2002.
- [104] Jayant V. Narlikar. The concepts of “beginning” and “creation” in cosmology. *Philosophy of Science*, 59(3):361–371, 1992.
- [105] H.H. Oliver. The complementarity of theology and cosmology. *Zygon*, 13(1):19–33, 1978.
- [106] G. Oppy. On some alleged consequences of ‘the Hartle-Hawking cosmology’. *Sophia*, 36(1):84–95, 1997.
- [107] D.N. Page. Predictions and tests of multiverse theories. *Arxiv preprint hep-th/0610101*, 2006.
- [108] D.N. Page. Does God so love the multiverse? In M. Stewart, editor, *Science and religion in dialogue*. Wiley-Blackwell, Malden, MA, 2008.
- [109] R. Penrose. Before the big bang: an outrageous new perspective and its implications for particle physics. *European Particle Accelerator Conference (EPAC 06), Edinburgh, Scotland*, pages 2759–2762, 2006.
- [110] R. Penrose. Black holes, quantum theory and cosmology. *Journal of Physics: Conference Series*, 174:012001, 2009.
- [111] Roger Penrose. The basic ideas of conformal cyclic cosmology. In Charles Tandy, editor, *Death and anti-death*, volume 6, pages 223–242. Ria University Press, Palo Alto, CA, 2008.
- [112] Roger Penrose. *Cycles of time: an extraordinary new view of the universe*. Bodley Head, London, 2010.
- [113] A. Philippidis. Cosmic Controversy: The Big Bang and Genesis. *Perspectives on Science and Christian Faith*, 47:190–194, 1995.
- [114] Herman Philipse. *God in an age of science: a critique of religious reason*. Oxford University Press, NY, Forthcoming.
- [115] J.B. Pitts. Why the big bang singularity does not help the kalām cosmological argument for theism. *The British Journal for the Philosophy of Science*, 59(4):675, 2008.

- [116] P. Quinn. Creation, conservation and the Big Bang. In J. Earman et al., editors, *Philosophical problems of the internal and external worlds*, pages 589–612. University of Pittsburgh Press, 1993.
- [117] Graeme Rhook and Mark Zangari. Should we believe in the big bang? A critique of the integrity of modern cosmology. *PSA: Proceedings of the Biennial Meeting of the Philosophy of Science Association*, 1994:228–237, 1994.
- [118] H. Ross and J. Rea. Big bang – The Bible taught it first! *Facts for Faith*, 3, 2000.
- [119] Hugh Ross. A beginner’s – and expert’s – guide to the big bang: sifting facts from fictions. <http://www.reasons.org/rtbs-creation-model/tcm-big-bang>.
- [120] Carlo Rovelli. *Quantum gravity*. Cambridge University Press, NY, 2004.
- [121] R.J. Russell.  $t = 0$ , is it theologically significant? In W. Mark Richardson and Wesley J. Wildman, editors, *Religion and science: history, method, dialogue*, pages 201–224. Routledge, 1996.
- [122] R.J. Russell. Did God create our universe? *Annals of the New York Academy of Sciences*, 950(1):108–127, 2001.
- [123] R.J. Russell. *Cosmology: from alpha to omega: the creative mutual interaction of theology and science*. Fortress Pr, 2008.
- [124] T. Schick. The big-bang argument for the existence of God. In David Ohreen, editor, *Introduction to Philosophy: Knowledge, God, Mind, Morality*. Thomson-Nelson, Toronto, 2009.
- [125] G.L. Schroeder. *Genesis and the Big Bang: The discovery of harmony between modern science and the Bible*. Bantam Books, 1990.
- [126] H. Schwarz. *Eschatology*. Eerdmans, Grand Rapids, MI, 2000.
- [127] Kevin Sharpe. The origin of the big bang universe in ultimate reality with special reference to the cosmology of Stephen Hawking. *Ultimate Reality and Meaning*, 20:61–71, 1997.
- [128] J. Silk. *The big bang*. Times Books, 2000.
- [129] Chris Smeenk. *Approaching the absolute zero of time: theory development in early universe cosmology*. PhD thesis, University of Pittsburgh, 2003.
- [130] Gerrit Smith and Robert Weingard. Quantum cosmology and the beginning of the universe. *Philosophy of Science*, 57(4):663–667, 1990.
- [131] Q. Smith. A big bang cosmological argument for God’s nonexistence. *Faith and Philosophy*, 9(2):205–220, 1992.
- [132] Q. Smith. Stephen Hawking’s cosmology and theism. *Analysis*, 54(4):236, 1994.
- [133] Q. Smith. Why Steven Hawking’s cosmology precludes a creator. *Philo*, 1998.
- [134] Q. Smith. The reason the universe exists is that it caused itself to exist. *Philosophy*, 74(290):579–586, 1999.

- [135] Q. Smith. Problems with John Earman's attempt to reconcile Theism with general relativity. *Erkenntnis*, 52(1):1–27, 2000.
- [136] Q. Smith. Why the big bang is no help to theists. In *Science and religion: are they compatible?*, page 67. Prometheus Books, 2003.
- [137] L. Smolin. *Three roads to quantum gravity*. Basic Books, 2002.
- [138] Paul J. Steinhardt and Neil Turok. *Endless universe: beyond the big bang*. Doubleday, NY, 2007.
- [139] P.J. Steinhardt and N. Turok. A cyclic model of the universe. *Science*, 296(5572):1436–1439, 2002.
- [140] William Stoeger. The big bang, quantum cosmology and creation ex nihilo. In David Burrell et al., editors, *Creation and the God of Abraham*, pages 152–175. Cambridge University Press, New York, 2010.
- [141] William Stoeger. God, physics and the big bang. In Peter Harrison, editor, *The Cambridge Companion to Science and Religion*, pages 173–189. Cambridge University Press, 2010.
- [142] WR Stoeger, GFR Ellis, and U. Kirchner. Multiverses and cosmology: philosophical issues. Arxiv preprint astro-ph/0407329, 2004.
- [143] R. Swinburne. *Is there a God?* Oxford University Press, NY, 1996.
- [144] F.J. Tipler. *The physics of immortality*. Doubleday New York, 1995.
- [145] F.J. Tipler and J. Barrow. The anthropic cosmological principle. *Oxford University Press*, 1986.
- [146] P. Tod. Penrose's Weyl curvature hypothesis and conformally-cyclic cosmology. In *Journal of Physics: Conference Series*, volume 229, page 012013. IOP Publishing, 2010.
- [147] Rüdiger Vaas. *Hawkings neues Universum: Wie es zum Urknall kam*. Kosmos, 2008.
- [148] G. Veneziano. A simple/short introduction to pre-big-bang physics/cosmology. Arxiv preprint hep-th/9802057, 1998.
- [149] G. Veneziano. The myth of the beginning of time. *Scientific American*, pages 54–65, May 2004.
- [150] G. Veneziano. Did time have a beginning? A meeting point for science and philosophy. In Ernesto Carafoli, Gian Antonio Danieli, and Giuseppe O. Longo, editors, *The two cultures: shared problems*, pages 3–12. Springer, NY, 2009.
- [151] S. Weinberg. Living in the multiverse. In B. Carr, editor, *Universe or multiverse*, pages 29–42. Cambridge University Press, NY, 2007.
- [152] R. White. Fine-tuning and multiple universes. *Nous*, 34(2):260–276, 2000.
- [153] M.W. Worthing. *God, creation, and contemporary physics*. Fortress Press, Minneapolis, MN, 1996.
- [154] Christian Wüthrich. *Approaching the Planck scale from a generally relativistic point of view*. PhD thesis, University of Pittsburgh, 2006.
- [155] Wolfgang Yourgrau and Allen Breck, editors. *Cosmology, history and theology*. Plenum Press, 1977.



- [156] H. Zinkernagel. Did time have a beginning? *International Studies in the Philosophy of Science*, 22(3):237–258, 2008.
- [157] Jeffrey A. Zweerink. *Who's afraid of the multiverse?* Reasons to Believe, 2008.