

PUBLICATIONS OF BERNARD R. GOLDSTEIN

A. Books and Monographs:

1. *The Arabic Version of Ptolemy's Planetary Hypotheses*. Transactions of the American Philosophical Society, 57.4. Philadelphia: American Philosophical Society, 1967.
2. *Ibn al-Muthannā's Commentary on the Astronomical Tables of al-Khwārizmī*. Two Hebrew versions, edited and translated, with an astronomical commentary. New Haven: Yale University Press, 1967.
3. *Al-Biṭrūjī: On the Principles of Astronomy*. Vol. 1: Analysis and Translation; Vol. 2: The Arabic and Hebrew versions. Yale Studies in the History of Science and Medicine, 7. New Haven: Yale University Press, 1971.
4. *The Astronomical Tables of Levi ben Gerson*. Transactions of the Connecticut Academy of Arts and Sciences, 45. Hamden, CT: Archon Books, 1974.
5. *The Astronomy of Levi ben Gerson (1288–1344)*. New York: Springer-Verlag, 1985.
6. *Theory and Observation in Ancient and Medieval Astronomy*. A collection of 24 essays, revised with a new preface. London: Variorum, 1985.
7. *From Ancient Omens to Statistical Mechanics: Essays on the Exact Sciences Presented to Asger Aaboe*, edited with J. L. Berggren. Copenhagen: University Library, 1987.
8. *Levi ben Gerson's Prognostication for the Conjunction of 1345*. Transactions of the American Philosophical Society, 80.6. Philadelphia: American Philosophical Society, 1990 [with David Pingree].
9. *Astronomy in the Iberian Peninsula: Abraham Zacut and the Transition from Manuscript to Print*. Transactions of the American Philosophical Society, 90.2. Philadelphia: American Philosophical Society, 2000 [with José Chabás].
10. *The Alfonsine Tables of Toledo*. Archimedes: New Studies in the History and Philosophy of Science and Technology, 8. Dordrecht: Kluwer, 2003 [with José Chabás].
11. *From Summetria to Symmetry: The Making of a Revolutionary Scientific Concept*. Archimedes: New Studies in the History and Philosophy of Science and Technology, 20. Dordrecht: Springer, 2008 [with Giora Hon].
12. *Las Tablas Alfonsíes de Toledo*. A Spanish translation of A.10. Toledo: Diputación Provincial de Toledo, 2008 [with José Chabás].
13. *The Astronomical Tables of Giovanni Bianchini*. Leiden: Brill, 2009 [with José Chabás].

B. Periodical Articles:

1. "A Medieval Table for Reckoning Time from Solar Altitude", *Scripta Mathematica*, 27 (1964), 61–66.
2. "The Book on Eclipses of Māshā'allāh", *Physis*, 6 (1964), 205–213.
3. "A Treatise on Number Theory from a Tenth Century Arabic Source", *Centaurus*, 10 (1964), 129–160.

4. "Evidence for a Supernova of A.D. 1006", *The Astronomical Journal*, 70 (1965), 106–114.
5. "On the Theory of Trepidation", *Centaurus*, 10 (1965), 232–247.
6. "The 1006 Supernova in Far Eastern Sources", *The Astronomical Journal*, 70 (1965), 748–753 [with Ho Peng Yoke].
7. "The Medieval Hebrew Tradition in Astronomy", *Journal of the American Oriental Society*, 85 (1965), 145–148.
8. "The X-ray Source Sco X–3", *Nature*, 211 (30 July 1966), 504.
9. "A Note on the Metonic Cycle", *Isis*, 57 (1966), 115–116.
10. "The Town of Ezob/Aurayca", *Revue des Etudes Juives*, 126 (1967), 269–271.
11. "Medieval Astronomy According to Hebrew Sources", *Koroth*, 4 (1968), 679–690 [in Hebrew with an English summary].
12. "Ibn Irāq", *Encyclopedia of Islam*, 2nd edn., 1969, 2:808.
13. "Ibn al-Şaffār", *Encyclopedia of Islam*, 2nd edn., 1969, 2:924.
14. "Ibn Yūnus", *Encyclopedia of Islam*, 2nd edn., 1969, 2:969–970.
15. "Preliminary Remarks on Levi ben Gerson's Contributions to Astronomy", *Proceedings of the Israel Academy of Sciences and Humanities*, 3 (1969), 239–254.
16. "Some Medieval Reports of Venus and Mercury Transits", *Centaurus*, 14 (1969), 49–59.
17. "Planetary Distances and Sizes in an Anonymous Arabic Treatise Preserved in Bodleian Ms. Marsh 621", *Centaurus*, 15 (1970–71), 135–170 [with Noel Swerdlow].
18. "The Jewish Contribution to Astronomy in the Middle Ages", in *The Jews*, edited by L. Finkelstein. New York: Schocken Books, 1971, 3:270–275.
19. "Theory and Observation in Medieval Astronomy", *Isis*, 63 (1972), 39–47.
20. "Levi ben Gerson's Lunar Model", *Centaurus*, 16 (1972), 257–284.
21. "On an Error in the Babylonian Table of Pythagorean Triples", *Centaurus*, 18 (1974), 64–66 [with Christopher Anagnostakis].
22. "Levi ben Gerson's Preliminary Lunar Model", *Centaurus*, 18 (1974), 275–288.
23. "Levi ben Gerson's Analysis of Precession", *Journal for the History of Astronomy*, 6 (1975), 31–41.
24. "The Hebrew Astrolabe in the Adler Planetarium", *Journal of Near Eastern Studies*, 35 (1976), 251–260.
25. "Astronomical and Astrological Themes in the Philosophical Works of Levi ben Gerson", *Archives Internationales d'Histoire des Sciences*, 26 (1976), 221–224.
26. "Refraction, Twilight, and the Height of the Atmosphere", *Vistas in Astronomy*, 20 (1976), 105–107.
27. "Horoscopes from the Cairo Geniza", *Journal of Near Eastern Studies*, 36 (1977), 113–144 [with David Pingree].
28. "Remarks on Ptolemy's Equant Model in Islamic Astronomy", in *Prismata: Festschrift für Willy Hartner*, edited by Y. Maeyama and W. G. Salzer. Wiesbaden: Franz Steiner Verlag, 1977, pp. 165–181 [with Frederick W. Sawyer, III].
29. "Ibn Mu'ādh's Treatise on Twilight and the Height of the Atmosphere", *Archive for History of Exact Sciences*, 17 (1977), 97–118.
30. "Levi ben Gerson: On Instrumental Errors and the Transversal Scale", *Journal for History of Astronomy*, 8 (1977), 102–112.

31. "The Astronomical Tables of al-Khwārizmī in a Nineteenth Century Egyptian Text", *Journal of the American Oriental Society*, 98 (1978), 96–99 [with David Pingree].
32. "The Role of Science in the Jewish Community in Fourteenth Century France", *Annals of the New York Academy of Sciences*, 314 (1978), 39–49.
33. "Astrological Almanacs from the Cairo Geniza", *Journal of Near Eastern Studies*, 38 (1979), 153–175, 231–256 [with David Pingree].
34. "The Survival of Arabic Astronomy in Hebrew", *Journal for the History of Arabic Science*, 3 (1979), 31–39.
35. "Medieval Observations of Solar and Lunar Eclipses", *Archives Internationales d'Histoire des Sciences*, 29 (1979), 101–156.
36. "Solar and Lunar Velocity in the Alfonsine Tables", *Historia Mathematica*, 7 (1980), 134–140.
37. "The Status of Models in Ancient and Medieval Astronomy", *Centaurus*, 24 (1980), 132–147.
38. "Babylonian Solar Theory Reconsidered", *Archives Internationales d'Histoire des Sciences*, 30 (1980), 189–191.
39. "More Horoscopes from the Cairo Geniza", *Proceedings of the American Philosophical Society*, 125 (1981), 155–189 [with David Pingree].
40. "The Hebrew Astronomical Tradition: New Sources", *Isis*, 72 (1981), 237–251.
41. "Astronomical Computations for 1299 from the Cairo Geniza", *Centaurus*, 25 (1982), 303–318 [with David Pingree].
42. "A Hispano-Arabic Astrolabe with Hebrew Star Names", *Annali dell'Istituto e Museo di Storia della Scienza di Firenze*, 8 (1983), 19–29 [with George Saliba].
43. "A New View of Early Greek Astronomy", *Isis*, 74 (1983), 330–340 [with Alan C. Bowen].
44. "The Obliquity of the Ecliptic in Ancient Greek Astronomy", *Archives Internationales d'Histoire des Sciences*, 33 (1983), 3–14.
45. "Additional Astrological Almanacs from the Cairo Geniza", *Journal of the American Oriental Society*, 103 (1983), 673–690 [with David Pingree].
46. "Is Seventeenth Century Physics Indebted to the Stoics?", *Centaurus*, 27 (1984), 148–164 [with Peter Barker].
47. "Eratosthenes on the 'Measurement' of the Earth", *Historia Mathematica*, 11 (1984), 411–416.
48. "Scientific Traditions in Late Medieval Jewish Communities", in *Les Juifs au regard de l'histoire: Mélanges en l'honneur de M. Bernhard Blumenkranz*, edited by G. Dahan. Paris: Picard, 1985, pp. 235–247.
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50. "Preliminary Remarks on Levi ben Gerson's Cosmology", in *Creation and the End of Days*, edited by D. Novak and N. Samuelson. Lanham: University Press of America, 1986, pp. 261–276.
51. "Levi ben Gerson's Theory of Planetary Distances", *Centaurus*, 29 (1986), 272–313.
52. "The Making of Astronomy in Early Islam", *Nuncius: Journal of the History of Science*, 1 (1986), 79–92.
53. "Descriptions of Astronomical Instruments in Hebrew", in *Essays in Honor of E. S. Kennedy*, edited by D. A. King and G. Saliba. *Annals of the New York Academy of Sciences*, 500 (1987), 105–141.

54. "Remarks on Gemma Frisius's *De Radio Astronomico et Geometrico*", in *From Ancient Omens to Statistical Mechanics: Essays on the Exact Sciences presented to Asger Aaboe*, edited by J. L. Berggren and B. R. Goldstein. Copenhagen: University Library, 1987, pp. 167–179.
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67. "Levi ben Gerson's Astrology in Historical Perspective", in *Gersonide en son temps*, edited by G. Dahan. Louvain-Paris: Peeters, 1991, pp. 287–300.
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87. "Levi ben Gerson and the Brightness of Mars", *Journal for the History of Astronomy*, 27 (1996), 297–300.
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93. “Nicolas Copernic: Si la terre était une planète ...”, *Les Cahiers de Science & Vie*, Hors série, No. 39 (June 1997), 26–37.
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95. “L’héritage de la science arabe en hébreu”, in *Histoire des sciences arabes*, edited by R. Rashed, 3 vols. Paris: Editions du Seuil, 1997. 1:301–308. [French trans. of item 83]
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97. “Some Astronomical Tables of Abraham Zacut Preserved in Segovia”, *Physis*, 35 (1998), 1–10 [with José Chabás].
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103. “Before the Sun in the Church”, *Journal for the History of Astronomy*, 32 (2001), 73–77.
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106. “The Maximum Solar Equation in the Alfonsine Tables”, *Journal for the History of Astronomy*, 32 (2001), 345–348 [with José Chabás].
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110. “Levi ben Gerson’s Preliminary Remarks for a Theory of Planetary Latitudes”, *Aleph*, 2 (2002), 15–30.
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116. “Patronage and the Production of *De Revolutionibus*”, *Journal for the History of Astronomy*, 34 (2003), 345–368 [with Peter Barker].
117. “The Development of the Priestly Calendars (I): The Daily Sacrifice and the Sabbath”, *Hebrew Union College Annual*, 74 (2003), 1–20 [with Alan Cooper].
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122. “Preliminary Remarks on Judah ben Verga’s Contributions to Astronomy”, in *The Practice of Mathematics in Portugal: Papers from the International Meeting held at Óbidos [Portugal], 16–18 November 2000*, edited by L. Saraiva and H. Leitão. Coimbra: Coimbra University Press, 2004, pp. 63–90.
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124. “From Proportion to Balance: The Background to Symmetry in Science”, *Studies in History and Philosophy of Science*, 36 (2005), 1–21 [with Giora Hon].
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127. “Colors of Eclipses in Medieval Hebrew Astronomical Tables”, *Aleph*, 5 (2005), 11–34.
128. “Obituary: David E. Pingree (1933–2005)”, *Aestimatio*, 2 (2005), 71–72 [with Kim Plofker].
129. “Isaac Ibn al-Ḥadib and Flavius Mithridates: The Diffusion of an Iberian Astronomical Tradition in the Late Middle Ages”, *Journal for the History of Astronomy*, 37 (2006), 147–172 [with José Chabás].
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132. “Unpacking ‘For reasons of symmetry’: Two Categories of Symmetry Arguments”, *Philosophy of Science*, 73 (2006), 419–439 [with Giora Hon].
133. “Celestial Charts and Spherical Triangles: The Unifying Power of Symmetry”, *Journal for the History of Astronomy*, 38 (2007), 1–14 [with Giora Hon].
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135. “What’s New in Ptolemy’s *Almagest*?”, *Nuncius*, 22 (2007), 261–285.
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137. “Commentary on: ‘The Status of Models in Ancient and Medieval Astronomy’”, *Centaurus*, 50 (2008), 184–188.
138. “Transmission of computational methods within the Alfonsine corpus: the case of the tables of Nicholaus de Heybech”, *Journal for the History of Astronomy*, 39 (2008), 345–355 [with José Chabás].
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140. “Hertz’s methodology and its influence on Einstein”, in G. Wolfschmidt (ed.), *Proceedings of the International symposium for History of Science: Heinrich Hertz (1857–1894) and the Development of Communication*, Norderstedt: Books on Demand, 2008, pp. 95–104 [with Giora Hon].
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C. Reviews:

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