Philosophy of Mathematics Book List (v.5)

A. Introductory Texts

\*Bostock, D. *Philosophy of Mathematics: An Introduction* (2009)

Brown, J. R. *Philosophy of Mathematics*, 2nded (2008)

Colyvan, M. *An Introduction to the Philosophy of Mathematics* (2011)

George, A. and D. Velleman *Philosophies of Mathematics* (2002)

Körner, S. *The Philosophy of Mathematics: An Introductory Essay* (1960)

\*Linnebo, Ø. *Philosophy of Mathematics* (2017)

\*Shapiro, S. *Thinking about mathematics: The philosophy of mathematics* (2000)

B. General Collections of Essays

Aspray, W. and P. Kitcher *History and Philosophy of Modern Mathematics* (1988)

\*Benacerraf, P. and H. Putnam *Philosophy of Mathematics: Selected Readings*, 2nded (1983)

\*Ewald, W. *From Kant to Hilbert: A Source Book in the Foundations of Mathematics* (1996)

George, A. *Mathematics and Mind* (1994)

\*Hart, W. *The Philosophy of Mathematics* (1996)

Hersch, R. *18 Unconventional Essays on the Nature of Mathematics* (2006)

\*Irvine, A.D. *Philosophy of Mathematics* (2009)

Leng, M., et al *Mathematical Knowledge* (2007)

\*Lindström, S., et al *Logicism, Intuitionism and Formalism: What has become of them?* (2009)

Mancosu, P. *The Philosophy of Mathematical Practice* (2008)

Marcus, R. and M. McEvoy *An Historical Introduction to the Philosophy of Mathematics: A Reader* (2016)

\*Shapiro, S. *The Oxford Handbook of the Philosophy of Mathematics and Logic* (2005)

Schirn, M. *The Philosophy of Mathematics Today* (1998)

Tymoczko, T. *New Directions in the Philosophy of Mathematics* (1985)

Van Heijenoort, J. *From Frege to Gödel: A Source Book in Mathematical Logic* (1967)

C. Other Books and Collections

Ayer, A. *Language, Truth and Logic* (1947)

Balaguer, M. *Platonism and Anti-Platonism in Mathematics* (1998)

Bishop, E. and D. Bridges *Constructive Analysis* (1985)

Bostock, D. `Aristotle’s Philosophy of Mathematics’ in *Oxford Handbook of Aristotle* (2012)

Brittan, G. *Kant’s Theory of Science* (1978)

Burgess, J. and G. Rosen *A Subject with No Object* (1997)

Connes, A., et al *Triangle of Thoughts* (2000)

Corfield, D. *Towards a Philosophy of Real Mathematics* (2004)

Curry, H. *Outlines of a Formalist Philosophy of Mathematics* (1951)

Davis, P and R. Hersch *The Mathematical Experience* (1981)

Dedekind, R. *Essays on the Theory of Numbers* (1963)

Dehaene, S. and E. Brannon *Space, Time and Number in the Brain* (2011)

Demopoulos, W. *Frege’s Philosophy of Mathematics* (1997)

Diamond, C. *Wittgenstein’s Lectures on the Foundations of Mathematics, Cambridge 1939* (1975)

Dummett, M. *Elements of Intuitionism* (1977)

\*Ferreirós, J. *Mathematical Knowledge and the Interplay of Practices* (2016)

Field, H. *Science without numbers: a defense of nominalism* (1980)

Field, H. *Realism, Mathematics & Modality* (1989)

Frege, G. *The Foundations of Arithmetic* (1959)

Franks, C. *The Autonomy of Mathematical Knowledge: Hilbert’s Program Revisited* (2009)

Giaquinto, M. *The Search for Certainty: A Philosophical Account of the Foundations of Mathematics* (2002)

Hahn, H. *Empiricism, Logic and Mathematics: Philosophical Essays* (1980)

Jost, J. *Bernhard Riemann: On the Hypotheses Which Lie at the Bases of Geometry* (2016)

Kitcher, P. *The Nature of Mathematical Knowledge* (1984)

Koetsier, T. *Lakatos’* *Philosophy of Mathematics* (1991)

\*Lakatos, I. *Proofs and Refutations: The Logic of Mathematical Discovery* (1976)

Lakatos, I. *Mathematics, science and epistemology* (1978)

Lawvere, F.W. and R. Rosebrugh *Sets for Mathematics* (2003)

Leng, M. *Mathematics and Reality* (2010)

Mancosu, P. *Philosophy of Mathematics and Mathematical Practice in the 17th Century* (1996)

Mac Lane, S. *Mathematics: Form and Function* (1986)

Maddy, P. *Realism in Mathematics* (1990)

Maddy, P. *Naturalism in Mathematics* (1997)

Manin, Yu. *Mathematics and Physics* (1981)

\*Manin, Yu. *Mathematics as Metaphor* (2007)

McKeon, R. (editor) *The Basic Works of Aristotle* (1941)

Parsons, C. *Mathematics in Philosophy: Selected Essays* (1983)

Pesic, P. *Beyond Geometry* (2007)

Poincaré, H. *The Value of Science (Essential Writings)* (2001)

Posy, C. *Kant’s Philosophy of Mathematics* (1992)

Ramsey, F. The Foundations of Mathematics, in *Philosophical Papers*, ed. D. Mellor (1990)

Rashed, R. *The Development of Arabic Mathematics: Between Arithmetic and* Algebra (1994)

Rashed, R. Classical Mathematics from Al-Khwarizmi to Descartes (2005)

Rashed, R. and B. Vahabzadeh *Omar Khayyam, the Mathematician* (2000)

Russell, B. *The Principles of Mathematics* (1903)

Sieg, W. *Hilbert’s Programs and Beyond* (2013)

Steiner, M. *Mathematical Knowledge* (1975)

Steiner, M. *The Applicability of Mathematics as a Philosophical Problem* (1999)

Tietzen, R. *Mathematical Intuition: Phenomenology and Mathematical Knowledge* (1989)

Tiles, M. *Mathematics and the Image of Reason* (1991)

Troelstra, A.S. and D. van Dalen *Constructivism in Mathematics, Vol.1* (1988)

Van Dalen, D. *Brouwer’s Cambridge lectures on intuitionism* (1981)

\*Wagner, R. *Making and Breaking Mathematical Sense: Histories and Philosophies of Mathematical Practice* (2017)

Wang, H. *From Mathematics to Philosophy* (1974)

Wedberg, A. *Plato’s Philosophy of Mathematics* (1955)

Weyl, H. *Philosophy of Mathematics and Natural Science* (1949)

Weyl, H. *The Continuum* (1987)

Wittgenstein, L. *Remarks on the Foundations of Mathematics* (1956)