Philosophy 232 Epistemology Gila Sher Winter 2015

Office Hours: W, 5-6

Graduate Seminar: TRUTH & SCIENTIFIC CHANGE

Goal: Examine (i) how the reality of scientific change affects our conception of truth, and (ii) what conception of truth is most appropriate for science given the reality of scientific change.

Grades: Class presentation & Paper

Topics

W 1/7	Introduction to Seminar
W 1/14	From a Deflationist to a Substantivist Approach to Truth
W 1/21	From Traditional Correspondence to a New Correspondence
W 1/28	The Problem of Scientific Change & Pessimistic Meta-Induction.
W 2/4	A Common Solution, or a Prevalent Assumption Underlying Many Attempted Solutions: Approximate Truth. A Critical Examination of this Solution/Assumption.
W 2/11	An Alternative Solution: Truth as a Dynamic Standard for Knowledge
W 2/18	Truth & Incommensurability
W 2/25	Mathematical Truth & Scientific Truth
W 3/4	Dynamic Truth & Scientific Realism
W 3/11*	Future Research
* Change date	

Readings

W 1/14 From a Deflationist to a Substantivist Approach to Truth

A. Tarski: "On the Concept of Truth in Formalized Languages" (1933)

P. Horwich: *Truth* (1990/8)

- G. Sher: "On the Possibility of a Substantive Theory of Truth" (1998/9)
- G. Sher: "In Search of a Substantive Theory of Truth" (2004)
- D. Edwards: "Truth as a Substantive Property" (2013)

W 1/21 From Traditional Correspondence to a New Correspondence

- M. David: "The Correspondence Theory of Truth" (2002/9)
- C. Wright: "Truth: A Traditional Debate Reviewed" (1999)
- D. Patterson: "What is a Correspondence Theory of Truth?" (2003)
- G. Sher: "Forms of Correspondence: The Intricate Route from Thought to Reality" (2013)
- G. Sher: "Truth as Composite Correspondence" (Forthcoming)

W 1/28 The Problem of Scientific Change & Pessimistic Meta-Induction

- A. Chakravartty: "Scientific Realism" (2011)
- L. Laudan: "A Confutation of Convergent Realism" (1981)
- P. Lewis: "Why the Pessimistic Induction is a Fallacy" (2001)
- J. Saatsi: "On the Pessimistic Induction and Two Fallacies" (2005)
- G. Doppelt: "Reconstructing Scientific Realism to Rebut the Pessimistic Meta-Induction". (2007)
- ----. "Explaining the Success of Science: Kuhn and Scientific Realists" (2013)
- S. Roush: "Optimism about the Pessimistic Induction" (2010)

W 2/4 A Common Solution, or a Prevalent Assumption Underlying Many Attempted Solutions: Approximate Truth. A Critical Examination of this Solution/Assumption.

- A. Chakravartty: "Scientific Realism". (2011)
- K.R. Popper: Conjectures and Refutations: The Growth of Knowledge (1972: 231-6)
- R.N. Boyd: "Realism, Approximate Truth and Philosophical Method" (1990)
- T. Weston: "Approximate Truth and Scientific Realism" (1992)
- I. Niiniluoto: "Verisimilitude: The Third Period" (1998)
- P. Smith: "Approximate Truth and Dynamic Theories" (1998)
- G. Oddie: "Truthlikeness" (2001/14)
- J.A. Barrett: "Approximate Truth & Descriptive Nesting" (2008)

W 2/11 An Alternative Solution: Truth as a Dynamic standard for Knowledge

Exploratory Subject: No Readings

W 2/18 Truth & Incommensurability

- T.S. Kuhn: The Structure of Scientific Revolutions (1962/70). Chs. I, IX, X, XII, XIII, Postscript
- P. Hoyningen-Huene: "Kuhn's Conception of Incommensurability" (1990)
- H. Sankey: "Kuhn's Changing Concept of Incommensurability" (1993)

----. "Scientific Realism and the Semantic Incommensurability Thesis" (2009)

M. Carrier: "Changing Laws and Shifting Concepts: On the Nature and Impact of Incommensurability" (2001)

M. Devitt: "Incommensurability and the Priority of Metaphysics" (2001)

E. Oberheim & P. Hoyningen-Huene: "The Incommensurability of Scientific Theories" (2009/13)

W 2/25 Mathematical Truth & Scientific Truth

P. Benacerraf: "What Numbers Could Not Be?" (1965)

----. "Mathematical Truth" (1973)

M. Steiner: "The Application of Mathematics to Natural Science" (1989)

----. "The Applicabilities of Mathematics" (1995)

O. Linnebo: "Platonism in the Philosophy of Mathematics" (2009/13)

H. Field: "Introduction: Fictionalism, Epistemology, and Modality" (1989)

M. Balaguer: "Fictionalism in the Philosophy of Mathematics" (2008/11)

W 3/4 Dynamic Truth & Scientific Realism

Exploratory Subject: Background Readings

A. Chakravartty: "Scientific Realism" (2011)

R.N. Boyd: "What Realism Implies and What it Does Not" (1989)

T.D. Lyons: "Towards a Purely Axiological Scientific Realism" (2005)

C.L. Hardin & A. Rosenberg: "In Defence of Convergent Realism" (1982)

A. Fine: "Piecemeal Realism" (1990)

A. Musgrave: "Discussion: Realism About What?" (1992)

P. Kitcher: *The Advancement of Science: Science without Legend*, Ch. 5: "Realism and Scientific Progress" (1993)

P. K. Stanford: "Pyrrhic Victories for Scientific Realism" (2003)

----. Exceeding Our Grasp: Science, History, and the Problem of Unconceived Alternatives, Ch. 2. (2006)

*W 3/11** Future Research

No Readings