

SE De Angelis / Wilsche – WS 2014/15

Der Begriff der wissenschaftlichen Beobachtung

Dienstag 17.00-18.30, SR 25.02

— Programm

- 07.10. Einführung
- 14.10. Programm / Reading Assignments
- 21.10. Lorraine Daston (2011): "On Scientific Observation", in: *Isis* 99/1, 97-110.
- 28.10. Peter Kosso (1992): „Underdetermination“ & „Observation“, in: *Reading the Book of Nature*, Cambridge: Cambridge University Press, 87-122.
- 11.11. Charlotte Bigg (2011): „A Visual History of Jean Perrin’s Brownian Motion Curves“, in: Lorraine Daston & Elizabeth Lunbeck (eds.): *Histories of Scientific Observation*, Chicago: University of Chicago Press, 156-180.
- 18.11. Norwood Russell Hanson (1965): „Observation“, in: *Patterns of Discovery*, Cambridge: Cambridge University Press, 4-30.
- Optional: Matthew D. Lund (2010): „Observation“, in: *N.R. Hanson: Observation, Discovery, and Scientific Change*, Amherst: Humanity Books 75-102.
- 25.11. William Brewer & Bruce L. Lambert (2001): „The theory-ladenness of observation and the theory-ladenness of the Rest of Scientific Process“, in: *Philosophy of Science* 68, 176-186.

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- 02.12. Michael D. Gordin (2011): „Seeing is Believing: Professor Vagner’s Wonderful World“, in: Lorraine Daston & Elizabeth Lunbeck (eds.): *Histories of Scientific Observation*, Chicago: University of Chicago Press, 135-155.
- 09.12. Trevor Pinch (1985): „Towards an Analysis of Scientific Observation: The Externality and Evidential Significance of Observational Reports in Physics“, in: *Social Studies in Science* 15/1, 3-36.
- 16.12. Alan Chalmers (2003): „The Theory-Dependence of the Use of Instruments in Science“, in: *Philosophy of Science* 70/3, 493-509.
- 13.01. Davis Baird & Thomas Faust (1990): „Scientific Instruments, Scientific Progress and the Cyclotron“, in: *The British Journal for the Philosophy of Science* 41/2, 147-175.
- 20.01. Kelley Wilder (2011): „Visualizing Radiation: The Photographs of Henri Becquerel“, in: Lorraine Daston & Elizabeth Lunbeck (eds.): *Histories of Scientific Observation*, Chicago: University of Chicago Press, 349-368.
- 27.01. James Bogen & James Woodward (1988): „Saving the Phenomena“, in: *The Philosophical Review* XCVII/3, 303-353.

Weitere Literatur:

Donald Gillies (1993): „The Nature of Observation“, in: *Philosophy of Science in the Twentieth Century*, Oxford & Cambridge: Blackwell, 117-150.

Michael Heidelberger (2003): „Theory-Ladenness and Scientific Instruments in Experimentation“, in: Hans Radder (ed.): *The Philosophy of Scientific Experimentation*, Pittsburgh: University of Pittsburgh Press, 138-151.

Dudley Shapere (1982): „The Concept of Observation in Science and Philosophy“, in: *Philosophy of Science* 49, 485-525.

Peter Galison (1997): „Cloud Chambers: The Peculiar Genius of British Physicists“, in: *Image & Logic*, Chicago: University of Chicago Press, 65-134.

Peter Galison (1997): „The Trading Zone: Coordinating Action and Belief“, in: *Image & Logic*, Chicago: University of Chicago Press, 781-844.

Harry Collins (1985): „Replicating the TEA-Laser: Maintaining Scientific Knowledge“, in: *Changing Order: replication and induction in scientific practice*, London: Sage, 51-78.

Harry Collins (1985): „Detecting Gravitational Radiation: The Experimenters' Regress“, in: *Changing Order: replication and induction in scientific practice*, London: Sage, 79-128.

Peter Kosso (1992): „Observing of the Past“, in: *History and Theory* 31/1, 21-36.

Ian Hacking (1985): „Do We See through a Microscope?“, in: Paul Churchland & Clifford Hooker (eds.): *Images of Science*, Chicago: University of Chicago Press, 132-152.

Bas van Fraassen (2008): „A Window on the Invisible World (?)“, in: *Scientific Representation*, Oxford: Clarendon Press. 93-113.

William Seager (1995): „Ground Truth and Virtual Reality: Hacking vs. Van Fraassen“, in: *Philosophy of Science* 62, 451-478.

Marc Alspector-Kelly (2004): „Seeing the Unobservable: van Fraassen and the Limits of Experience“, in: *Synthese* 140, 331-353.

Sprechstunde De Angelis nach Anmeldung im Sekretariat (Alex.Wagner@uni-graz.at).

Sprechstunde Wiltsche Mittwoch 11.30-12.30 (bitte um vorherige Anmeldung unter harald.wiltsche@uni-graz.at).