

Cambridge University Press

978-1-107-42376-3 — The Realistic Empiricism of Mach, James, and Russell

Erik C. Banks

Index

[More Information](#)*Index*

- a posteriori physicalism, 142, 146–148, 150–151, 164
 a priori physicalism, 147–148, 152–153, 166, 168
 Abbott, Edwin, 199–200
 acquaintance, 10, 13, 71, 114–116, 118–121, 123, 127, 134–135
 Adler, Friedrich, 65
 Ames room, 98, 105
 Apelt, E. F., 185
 Aristotle, 21, 50
 Avenarius, Richard, 2–3, 35, 79–80
- Barbour, Julian, 53–54
 Bell, John S., 197
 Berkeley, George, 10, 34, 64
 bilocation, error of, 78, 80
 Bird, Alexander, 155
 Blackmore, John, 1, 15, 31, 35, 42, 44, 48, 66
 blobs and squiggles, 89, 96–104, 111
 Bogdanov, Alexander, 35
 Bohr, Niels, 44–45, 48, 133
 Boltzmann, Ludwig, 43, 55
 Boring, Edwin, 33, 82, 174, 179
 Boskovich, Roger, 46, 172, 175
 Bostock, David, 36, 128
 Brentano, Franz, 10, 67, 70, 94, 101, 112, 120–121, 129
 Brewer, Bill, 106
 British Empiricism, 3, 25
 Broad, C. D., 154, 163
 Browne, John, 23, 184–186
- Camillieri, Kristian, 60
 Carlson, Thomas, 111
 Carnap, Rudolf, 2, 12, 16, 26, 72, 196
 Carnot, Sadi, 36, 42, 58
 Carus, Paul, 34
 causal closure, 82, 159
 causal-functional maps, 73, 75, 132
 causation, 11, 36, 46, 74, 83–84, 93, 142, 158–159, 164, 166, 172
- Chalmers, David, 7, 140, 142, 156, 165–166
 Clifford, William Kingdon, 2–3, 197
 Clifford algebra, 187
 composition of causes, principle of, 152
 conservation of energy, 22, 38, 40, 44, 56, 75, 82–83, 142, 159, 161
 Cooper, Wesley, 90
 Crowe, Michael, 184, 188, 197
- D'Alembert, J. R., 55
 Darwin, Charles, 17, 205
 de Broglie, Louis, 133
 De Risi, Vincenzo, 55
 Deltete, Robert, 43
 Democritus of Abdera, 92, 158
 Demopoulos, William, 143
 Descartes, René, 37, 67, 112, 170
 Dirac, Paul, 44
 direct realism, 28, 88, 103
 Dretske, Fred, 159
 du Bois-Reymond, Emil, 31
 Duhem, Pierre, 17, 27, 40
 Duns Scotus, 21, 37, 50
- Eames, Elizabeth, 3, 114
 Earman, John, 172
 ego, 9, 65, 67–69, 71, 75, 91, 97, 105, 168, 205
 Ehrenfels, Christian von, 71
 Einstein, Albert, 1, 25, 30, 38, 40, 45, 53–54, 56–57, 60, 184
- element, 4–5, 14, 18, 31, 35, 37–38, 40, 43, 48, 55, 59, 63, 69–70, 73–74, 76–77, 118, 184–186, 192, 195
 emergence, 164, 168
 empiricist vs. realist impasse, 57–60
 energetics, 43
 epiphenomenalism, 159
 Euclid, 32
 event particulars, 3, 5–6, 24, 60, 119, 132, 135, 137–139, 142–144, 146, 154–156

Cambridge University Press

978-1-107-42376-3 — The Realistic Empiricism of Mach, James, and Russell

Erik C. Banks

Index

[More Information](#)*Index*

215

- evolution, 17, 114, 160, 167
- extensions, 25, 170, 185, 188, 191, 194–197, 199–200, 203
- Faraday, Michael, 27, 54
- Fechner, G. T., 31, 49, 62
- Feigl, Herbert, 7, 140
- Feyerabend, Paul, 2, 15–17, 38, 40, 47, 72
- Finkelstein, David, 172
- first order vs. second order, 2, 4, 51
- Flatland, 197–200
- forceful qualities, 49–50, 52
- Frank, Philipp, 2, 56
- Friedman, Michael, 3, 16, 53, 72, 106, 143, 173
- Gale, Richard, 90
- Galileo, 37
- Gauss, C. F., 173, 180–181
- Gestalt psychology, 71
- Gillet, Carl, 145
- Grassmann, Hermann, 7, 23–25, 49, 169–170, 172–173, 184–188, 190, 194–199
- Grassmann algebra, 7, 25, 169, 173, 185–188, 195–196
- Grayling, A. C., 136
- Gregory, Richard, 98
- Hagar, Amit, 172
- Haller, Rudolf, 66
- hallucination, problem of, 96–100, 102, 105, 122
- Harman, Gilbert, 10, 69
- Hatfield, Gary, 114–115, 174, 180
- Heidelberger, Michael, 62
- Heil, John, 18, 49, 151
- Heisenberg, Werner, 1, 25, 38, 44–45, 47–48, 59–60, 133–134
- Helm, Georg, 42–43
- Helmholtz, Hermann von, 31, 55–57, 68, 85, 174
- Hemmo, Meir, 172
- Hempel, Carl, 51
- Herbart, Johann Friedrich, 41, 46, 49–50, 52, 62, 169–170, 173–182, 184, 188, 196, 198–199
- Hering, Ewald, 31
- Hertz, Heinrich, 46, 55
- Hestenes, David, 187
- Hiebert, Erwin, 40–43
- Hinton, J. M., 97
- historico-critical method, 28, 88
- Holton, Gerald, 56, 60
- Howard, Don, 60
- Hume, David, 10, 17, 19, 34, 149, 152, 161, 163
- Huygens, Christian, 173
- image propositions, 115, 123, 127, 129–130
- intentionality, 94–95, 105, 112, 131
- intrinsic character of matter, 6, 20, 120, 134–136, 139–140, 142–143
- introjection, error of, 78–81
- Jackson, Frank, 151
- James, William
 - and Putnam, 103
 - causal theory of knowledge, 93–95, 116, 122
 - critique of consciousness, functional ego, 9
 - critique of intentionality, 94–95
 - influence on Russell, 120
 - meeting with Mach, 88
 - Memorial Hall example, 103
 - on forceful pure experiences, 93
 - on neutral pure experience, 90–91
 - on reality of functions, 11
- Jammer, Max, 43, 46, 54
- Jenkin, Fleeming, 17
- Jordan, Thomas, 188
- Joule, J. P., 41, 150
- Jowett, Benjamin, 18, 166
- Kandel, Erich, 77, 85, 158
- Kant, Immanuel, 2, 14, 28, 30, 50, 56, 89, 106–109, 111, 135, 170–172, 174, 181, 184, 193, 199–200
- Kim, Jaegwon, 82, 145, 159–160, 167
- Kirchhoff, G. R., 46, 58
- Kleinpeter, Hans, 34
- Kripke, Saul, 140
- Kuhn, Thomas, 39
- Lamberth, David, 94
- Lanczos, Cornelius, 54
- Landini, Gregory, 123–126
- Lasenby, Anthony, 187
- Laudan, Larry, 27
- Leibniz, Gottfried Wilhelm, 30, 37, 41, 46, 50, 53, 55, 109, 169–170, 172–174, 196–197, 199
- Lenard, Philipp, 54
- Lenin, V. I., 35–36
- Lewis, Albert, 188
- Locke, John, 10, 25, 37
- Lockwood, Michael, 3, 7, 114, 119, 134, 140, 153–154, 161, 163–164, 168
- Loewer, Barry, 145
- logical positivism, 3, 39, 72
- Lorentz, H. A., 54, 56
- Lortze, Hermann, 174, 180
- Lovejoy, Arthur O., 36, 80–81, 133
- Mach, Ernst
 - and “Mach’s Principle”, 52–55
 - as inaugurator of neutral monist movement, 33
 - elements not fundamental, 71–73
 - elements simpler than atoms, 47

Cambridge University Press

978-1-107-42376-3 — The Realistic Empiricism of Mach, James, and Russell

Erik C. Banks

Index

[More Information](#)

216

Index

- Mach, Ernst (cont.)
 “headless body” picture, 80
 influence on Einstein, 60
 meeting with James, 88
 on causal closure, mental causation, 82–84
 on elements as potential changes, 21–23
 on elements with dynamical force, 46–52,
 82–84
 on functional ego, 9–10, 67–71
 on knowledge and error, causal theory of
 knowledge, 131
 on metaphysical pseudoproblems, 14–15, 81
 on mind–body problem, 75–78
 on monism, 34–35
 on neutrality of elements, 32
 on phenomenological physics, 55–59
 on physical qualities, 36–37
 on reality of functions, 73–74
 on unobserved elements, 64–67
 opposition to mechanical world view, 59–60
 opposition/conversion to atomism, 47–48
 realism about sensation, 33–37, 62
 relation to energetics (Helm, Ostwald),
 43–44
 relation to quantum theory, 44–46
 Mach’s Principle, 53, 169
 Martin, C. B., 18, 49, 155
 Maxwell, Grover, 7, 140, 145
 Maxwell, James Clerk, 27, 40, 54–55, 58
 Mayer, J. R., 40
 McKittrick, Jennifer, 151
 McLaughlin, Brian, 154, 163
 Meinong, Alexis, 101
 Memorial Hall, 28, 93, 96, 98–99, 103, 112, 121
 metric, 23, 109, 137, 171, 179, 182, 184–186, 191,
 194, 202
 Mill, J. S., 16, 152, 154, 161, 164
 Minkowski, Hermann, 53, 56
 Möbius, A. F., 185
 Mumford, Stephen, 18, 151
 Münsterberg, Hugo, 111
 mutual disappearance argument, 74, 77–78, 165
 Myth of the Given, 71–72
 naturalism, 115, 131, 137
 Neurath, Otto, 2, 12
 neutral monism, 1–2, 7, 33, 71, 114–115, 118, 120,
 123, 127, 129, 131, 135, 137, 140, 143, 153, 165
 Newman, Max, 134, 136, 143–144, 146
 Newton, Sir Isaac, 37–38, 40, 44, 50–53, 55, 83
 Norton, John, 55
 Ockham, William of, 3, 21
 Oresme, Nicole, 37, 50
 Ostwald, Wilhelm, 42–43
 panpsychism, 6, 20, 140, 162, 204
 Papineau, David, 160
 Pargetter, Robert, 151
 Peirce, Charles Sanders, 71
 Penrose, Roger, 172
 Perrin, Jean, 27
 Petsche, Hans Joachim, 173, 184, 188
 Petzoldt, Josef, 35
 phenomenological laws, 39, 41, 57, 204
 phenomenological physics, 36, 40, 58
 physicalism, 7, 118, 140, 142, 144–147, 153, 157,
 164–166, 204
 Planck, Max, 40, 42–46, 55–56, 58
 Plato, 18, 166
 Poincaré, Henri, 17, 27
 point-events, 188, 191–194, 197, 202
 Pojman, Paul, 63
 Popper, Karl, 35
 Potemkin village, 105
 potential jumps as events, 23–24, 191–192, 196, 202
 powers and manifestations, 5–7, 10–11, 18–21, 42,
 48, 51, 78, 139, 142–144, 146–152, 154–155,
 157–158, 160–162, 164–165, 167–168,
 192–193, 201, 203–204
 Preston, John, 46
 Prior, Elizabeth, 151
 psychophysics, 1, 30–31, 41, 49, 67, 84
 Putnam, Hilary, 103, 112
 Quine, W. V. O., 3, 137–138, 140
 Rabel, Gabriele, 65
 Ratliff, Floyd, 9, 34, 63
 Reichenbach, Hans, 2, 138, 172
 relationship vs. substantivalism, 52, 179
 relativity, theory of, 27, 30, 38, 53, 56–57, 115,
 133–135, 137–138, 172, 184
 Richardson, Alan, 3, 72
 Riemann, Bernhard, 49, 169–170, 172, 179,
 181–184, 188, 190, 193, 195–196
 Robb, A. A., 134, 172
 Rosenberg, Gregg, 7, 141, 148
 Russell, Bertrand
 abandons theory of acquaintance, 120–121
 analysis of object into events, interactions, 16,
 119, 143
 converts to neutral monism, 120–121, 123
 critiques Mach and James, 121–122
 debate with Max Newman, 144
 enhanced sense of “physical”, 117–118, 156
 events as causal interactions, 15, 143
 external world program, 137–138
 “Fido”–Fido theory, 124
 identifies neutral monist movement, 140–141
 images not neutral, 130–131

Cambridge University Press

978-1-107-42376-3 — The Realistic Empiricism of Mach, James, and Russell

Erik C. Banks

Index

[More Information](#)*Index*

217

- intrinsic character of matter, 135, 144
 letter to Ottoline Morrell, 127
 multiple relation theory of belief, 124–126
 on neutral stuff, 128
 problem of false belief, 129–130
 sense data not mental, 117
 sensibilia, 118
 theory of acquaintance, 115–116
 Rynasiewicz, Robert, 54
 Scheibert, Carl, 173, 188
 Schlick, Moritz, 2, 7, 12, 16, 35
 Scholz, Erhard, 173, 179, 182
 Schrödinger, Erwin, 44–45, 83, 133
 Schubring, Kurt, 184
 Seager, William, 143
 Sellars, Wilfred, 71
 sense data, 4, 11, 17, 50, 71–72, 92, 103, 116–117,
 119–120, 131
 sense illusions, 122
 sensibilia, 13, 118–120, 131
 Sirius, Russell's example of, 15, 119, 132, 140
 Sprigge, Timothy, 94
 Stace, W. T., 36, 133
 Stoljar, Daniel, 7, 141, 145–146, 166
 Stout, G. F., 124, 126
 Strawson, Galen, 69, 141–142, 156, 165, 168
 Stubenberg, Leopold, 142
 Stumpf, Carl, 31
 supervenience, 145, 160
 Suppe, Frederick, 25
 Swimmer, Alvin, 184, 186, 189
 thermodynamics, 27, 36, 38, 40, 43, 51, 56–57, 59
 Thiele, Joachim, 34, 88, 91
 Thomson, William, 40, 42, 60
 Token Identity thesis, 151
 Tully, Robert, 3, 114–115, 117, 119–124, 128,
 131, 134
 Uebel, Thomas, 3, 12, 16, 25, 72
 umbrella theories, 17, 37, 204
 Unger, Peter, 7
 van Fraassen, Bas, 3
 Vienna Circle, 12, 16–17, 25–26, 30, 61, 137
 visualization, 27, 40, 56, 60
 Weinberg, C. B., 47
 Weyl, Hermann, 54, 186
 Whitehead, Alfred North, 2, 137, 196
 Winnie, John, 138, 172
 wire argument, 180
 Wittgenstein, Ludwig, 17, 33, 103, 113, 117,
 122–128, 137
 Wundt, Wilhelm, 174
 Zaddach, Arno, 184, 186