

Contents

Introduction

1	Aim and General Description of the Anthology	xv
1.1	Purpose of the Introduction	xvi
1.2	Organization of the Anthology	xxii
2	Notes on the Historiography of National Socialism	xix
3	The Impact of Nazi Science Policy on Physics Instruction and Research	xxvi
3.1	The Changing Attitude of Scientists within Germany	xxviii
3.2	Science Policy Measures after 1934	xxix
3.3	Faculty Membership in Nazi Organizations	xxxix
3.4	Student Enrollment in the Sciences	xlvi
4	Emigration Research	liii
4.1	General Emigration Statistics	liii
4.2	The Emigration of Scholars, Scientists and Engineers	liv
4.3	Emigration Statistics by Region and Discipline	lvi
4.4	Reaction to the Dismissals and to the First Wave of Emigrations	lviii
4.5	Host and Transit Countries	lix
4.6	Emigré Relief Organizations	lxi
5	Physics in Nazi Germany	lxv
5.1	Institutions Connected to Physical Research	lxv
5.2	German Physical Associations	lxx
5.3	The Protracted Conflict between Experimental and Theoretical Physics and the Emergence of the 'Aryan Physics' Movement	lxx
5.4	Physical Research in Germany 1933–1945	lxxviii
5.5	The Legacy of National Socialism	lxxxix
6	Style and Rhetoric	xciv
7	The Text	xcix
7.1	Tips for the User	xcix
7.2	A Note on the Translation	c
7.3	Acknowledgments	c

I Controversies Prior to 1933

1	A. Einstein: My Reply. On the Anti-Relativity Theoretical Co., Ltd., Aug. 27, 1920	1
2	M. von Laue: Review of J. Stark's <i>The Current Crisis in German Physics</i> , Jan. 12, 1923	6
3	P. Lenard & J. Stark: The Hitler Spirit and Science, May 8, 1924	7
4	A. von Brunn: Review of <i>100 Authors against Einstein</i> , Mar. 13, 1931	10

II After the Nazi Seizure of Power

5	L. Meitner: Letter to Otto Hahn, Mar. 21, 1933	17
6	A. Einstein: Letters to the Prussian Academy of Sciences and the Academy's Response, Mar. 28–Apr. 5, 1933	18
7	Law for the Restoration of the Professional Civil Service, Apr. 7, 1933	21
8	First Ordinance on the Implementation of the Law for the Restoration of the Professional Civil Service, Apr. 11, 1933	25
9	<i>Göttinger Zeitung:</i> Voluntary Resignation of Prof. James Franck, Apr. 17, 1933	26
10	Edith Hahn: Letter to James and Ingrid Franck, Apr. 22, 1933	31
11	Göttingen University Lecturers: Professor Franck's Resignation, Apr. 24, 1933	32
12	Law against the Overcrowding of German Schools and Universities, Apr. 25, 1933.	34
13	W. Köhler: Conversations in Germany, Apr. 28, 1933	36
14	<i>Vossische Zeitung:</i> The Spirit at Universities, Apr. 28, 1933	40
15	F. Haber: Letter of Resignation to Minister Rust, Apr. 30, 1933	44
16	J. Franck: Letter to Walther Gerlach, May 3, 1933	45

17	Third Ordinance on the Implementation of the Law for the Restoration of the Professional Civil Service, May 6, 1933	46
18	P. Lenard: A Big Day for Science. Johannes Stark appointed President of the <i>PTR</i> . May 13, 1933	49
19	M. von Laue: The Change in the Reich Physical and Technical Institute Presidency in the Spring of 1933	53
20	H. Kopfermann: Letter to Niels Bohr, May 23, 1933	54
21	<i>Science:</i> The Scientific Situation in Germany, June 2, 1933	59
22	W. Heisenberg: Letter to Max Born, June 2, 1933	61
23	C. Bosch: Letter to Fritz Haber, June 16, 1933	63
24	F. Haber: Letter to Carl Bosch, June 22, 1933	63
25	Governor of Hessen: Dismissal of George Jaffé, June 26, 1933	66
26	J. J. Thomson: Letter to George Jaffé, July 18, 1933	67
27	M. von Laue: Opening Address at the Physics Conference in Würzburg, Sep. 18, 1933	67
28	J. Stark: Organization of Physical Research, Sep. 18, 1933	71
29	M. von Laue: Fritz Haber †, Feb. 16, 1934	76
30	Kaiser Wilhelm Society: Record of a Conference Regarding the Kaiser Wilhelm Institute of Physics, June 22, 1934	79
31	M. von Laue: On Heisenberg's Uncertainty Relations and their Epistemological Significance, June 29, 1934	82
32	J. Stark: Personal Evaluations of G. Hertz and R. Gans for the German University Lecturers Association, Nov. 8, 1934	86
33	G. Mie: Letter to Max von Laue, Nov. 20, 1934	87
34	M. von Laue: Letter to Gustav Mie, Nov. 22, 1934	89
35	M. Wien: Physics at German Universities, late Nov. 1934	91

36	Law on the Retirement and Transfer of Professors as a Result of the Reorganization of the German System of Higher Education, Jan. 21, 1935	96
37	M. Nordmeyer: Letter to Lise Meitner, May 21, 1935	97
38	M. Planck: Progress Report by the Kaiser Wilhelm Society for the Advancement of the Sciences (April 1934 to the End of March 1935), June 28, 1935	98
39	P. Lenard: Foreword to <i>German Physics</i>, August 1935	100
40	J. Stark: Philipp Lenard: An Aryan Scientist, Dec. 13, 1935	109
41	<i>Nature</i>: Nazi-Socialism and International Science, Dec. 14, 1935	116
 III The Ideological Schism: 1936–1939		
42	W. Menzel: German Physics and Jewish Physics, Jan. 29, 1936	119
43	W. Heisenberg: On the Article: ‘German and Jewish Physics’, Feb. 28, 1936	121
44	J. Stark: Comment on W. Heisenberg’s Reply, Feb. 28, 1936	124
45	M. von Laue: Review of Philipp Lenard’s <i>German Physics</i>, Feb. 29, 1936	127
46	E. Gehrcke: How the Energy Distribution of Black-Body Radiation Was Really Found, Apr. 3, 1936	130
47	P. Debye: Comment on the Preceding Article by E. Gehrcke, May 4, 1936	133
48	P. Thiessen: Physical Chemistry in the National Socialist State, May 9, 1936	134
49	W. Heisenberg, H. Geiger & M. Wien: Petition, Spring 1936	137
50	Reich Education Ministry: Memorandum to Reich Minister Bernhard Rust, Oct. 2, 1936	140
51	<i>Science</i>: Germany and the Nobel Prizes, Feb. 12, 1937	141

52	B. Rust: Creation of a Research Council, Mar. 16, 1937	143
53	Reich Education Ministry: The Taking of a Doctorate by Jews of German Nationality, Apr. 15, 1937	145
54	P. Debye: Kaiser Wilhelm Institute of Physics, Apr. 23, 1937	146
55	<i>Das Schwarze Korps:</i> 'White Jews' in Science, July 15, 1937	152
56	J. Stark: 'Science' is Politically Bankrupt, July 15, 1937	157
57	F. Hund: Letter to Reich Minister Rust, July 20, 1937	160
58	C. Krauch: Youth to the Front Line. New Blood in Science and Technology, August 1937	161
59	F. Heyer: Review of E. Günther's <i>Military Physics</i> , Apr. 18, 1938	168
60	C. Bosch: Letter to Reich Minister W. Frick, May 20, 1938	170
61	Reich Interior Ministry: Letter to Carl Bosch, June 16, 1938	171
62	L. Prandtl: Letter to Heinrich Himmler, July 12, 1938	172
63	H. Himmler: Letter to Reinhard Heydrich, July 21, 1938	175
64	H. Himmler: Letter to Werner Heisenberg, July 21, 1938	176
65	H. Himmler: Letter to Ludwig Prandtl, July 21, 1938	177
66	Reich Education Ministry: Memorandum to Secretary Otto Wacker, Oct. 3, 1938	178
67	P. Debye: Letter to the board of the German Physical Society and enclosed draft letter to the German members, Dec. 2 & 8, 1938	181
68	German Physical Society: Minutes of Meeting, Dec. 14, 1938	182
69	P. W. Bridgman: 'Manifesto' by a Physicist, Feb. 24, 1939	184
70	L. Prandtl: Mechanics, c. April 1939	186
71	H. Geiger: Experimental Physics, c. April 1939	189
72	A. Esau: Technical Physics, c. April 1939	193

73	SS Head of the Central Office of Public Safety: Letter to R. Mentzel enclosing Report on Heisenberg, May 26, 1939	195
74	S. Flügge: Exploiting Atomic Energy, Aug. 15, 1939	197
 IV Physics at War: 1939–1945		
75	E. Schumann: Armed Forces and Research, 1939	207
76	M. Planck: Max von Laue, Oct. 6, 1939	220
77	L. Glaser: Jews in Physics: Jewish Physics, November 1939	223
78	P. Lenard: Foreword to <i>Ideological Continental Blockade</i> , Feb. 1, 1940	234
79	Contract between the Army Ordnance Office and the Kaiser Wilhelm Society, Mar. 6, 1940	235
80	B. Rust: Letter to Army High Command, Mar. 15, 1940	238
81	E. Telschow: Foreword to <i>Yearbook of the Kaiser Wilhelm Society</i> , August 1940	239
82	H.-J. Flechtner: Where does German Physics Stand Today? A Wartime Conference in Berlin, Sep. 8, 1940	240
83	W. Müller: Theoretical Physics at Universities, Nov. 1940	246
84	L. Prandtl: Letter to Hermann Göring, Apr. 28, 1941	259
85	L. Prandtl: Attachment to the Letter to Göring, Apr. 28, 1941	261
86	C. Ramsauer: Letter to Ludwig Prandtl, June 4, 1941	267
87	P. Jordan: Revolution in Science, September 1941	268
88	C. Ramsauer: Letter to Ludwig Prandtl, Oct. 31, 1941	275
89	W. Weizel: Review of <i>Jewish and German Physics</i> , Jan. 1942	276
90	C. Ramsauer: Letter to Bernhard Rust, Jan. 20, 1942	278
91	C. Ramsauer: American Physics Outdoes German Physics, Jan. 20, 1942	281

92	C. Ramsauer: Refuting Allegations that Modern Theoretical Physics is a Product of the Jewish Spirit, Jan. 20, 1942	285
93	C. Ramsauer: The Munich Conciliation and Pacification Attempt, Jan. 20, 1942	290
94	L. Prandtl: Letter to Carl Ramsauer, Jan. 28, 1942	292
95	W. Heisenberg: The Theoretical Basis for the Generation of Energy from Uranium Fission, Feb. 26, 1942	294
96	G. Graue: Letter to Albert Vögler, Mar. 13, 1942	301
97	A. Vögler: Foreword to <i>Yearbook of the Kaiser Wilhelm Society</i> , after Mar. 31, 1942	302
98	Führer's Decree on the Reich Research Council, June 9, 1942	303
99	H. Göring et al.: Record of Conference Regarding the Reich Research Council, July 6, 1942	304
100	H. Feitl: War Physics. Specific Weight 'Zero', May 30, 1943	309
101	P. Karlson: War Physics. Dropping Bombs, May 30, 1943	311
102	C. Ramsauer: The Key Position of Physics in Science, Technology and Armament, June 18, 1943	315
103	A. Esau: Budget Memorandum to R. Mentzel, Nov. 19, 1943	321
104	K. Diebner: Nuclear Research Commissions, Apr. 18, 1944	322
105	<i>Das Reich:</i> A[braham]. Esau, July 16, 1944	324
106	H. Himmler: Letter to Albert Speer, Aug. 3, 1944	327
107	W. Gerlach: Letter to Martin Bormann, Dec. 16, 1944	329

V The Legacy of National Socialism

108	L. Meitner: Letter to Otto Hahn, June 27, 1945	332
109	A. Weinberg & L. Nordheim: Memorandum on the <i>Kernphysikalische Forschungsberichte</i> , Nov. 8, 1945	334

110	W. Finkelburg: The Fight against Party Physics, c. 1946	339
111	S. Goudsmit: War Physics in Germany, January 1946	345
112	S. Goudsmit: German Scientists in Army Employment I — The Case Analyzed, February 1947	352
113	H. Bethe & H. Sack: German Scientists in Army Employment II — A Protest, February 1947	356
114	M. Planck: My Audience with Adolf Hitler, May 6, 1947	359
115	W. Heisenberg: Research in Germany on the Technical Application of Atomic Energy, Aug. 16, 1947	361
116	S. Goudsmit: Nazis' Atomic Secrets, Oct. 20, 1947	379
117	M. v.Laue: Wartime Activities of German Scientists, April 1948	393
118	P. Morrison: A Reply to Dr. von Laue, April 1948	396
119	S. Goudsmit: Our Task in Germany, April 1948	397
120	L. Meitner: Letter to Otto Hahn, June 6, 1948	400
121	W. Gerlach: Affidavit on Rudolf Mentzel, Dec. 13, 1948	403

Appendix

A	Professional Institutions and Associations	I
B	State and Military Institutions	V
C	National Socialist Organizations	IX
D	Some Major Industrial Firms	XII
E	Journals and Periodicals	XVI
F	Biographical Profiles	XVIII
	Bibliography	LIV
	Name Index	XCIV