A Selected Bibliography of Publications by, and about, Werner Heisenberg

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$(k_1 - k_n)$ [Tem91]. + [BKBS93]. **$1.40** [Ano68]. 1/2 [BHX96, JKS13, LB72, Man91]. **$10.95** [Jor78]. **$11.50** [Jor78]. **$12.00** [Kra07, Lan08]. **$129.99** [Cru23]. **$18.50** [Jor78]. **$2** [Ano29]. 2 [Hen93]. **$27.00** [Bed09]. **$27.50** [Cas93a, Wil94]. **$28.95** [Klo96]. **$29.95** [Fra94, Hay90]. $2p\pi$ [SHI73]. 3 [Isa82]. **$35** [Lan02]. **$35.00** [Neu99, Par06]. **$4.75** [Ano54]. **$6.95** [Lib68]. **$60.00** [Wat01]. **$80.00** [Cas11]. = [BKBS93]. * [BT96]. ^{235} [DK78]. ^{238} [Tur46a, Tur46b]. ^{239} [DK78]. ^{252} [DK78]. $_2$ [BBF$^+$45, DDH41a, DDH42a, DDH42c, DDH89a, DDH89c, DDH89f, Hei42b, HBB$^+$89, Hei89g, VBN95a, VBN95b, vBN95c]. $_4$ [VBN95a, VBN95b, vBN95c]. $_q$ [Bec02]. β [Gau14]. C^* [Pac88, Sud06]. $\mathcal{U}_{h,w}(\mathcal{H}(4))$ [Abd97]. d [VZ09]. η [Hei89k]. $H(1)_q$ [CGST91]. H_0 [CBS20]. K_0 [Pac88]. L^2 [NRS71]. $L_2(\mathbf{R}^d)$ [RS94]. L_p [LN06]. Λ [Cul05]. ω [DH62]. π [Hei51l]. $pq - qp = \sqrt{-1}\hbar/(2\pi)$ [Ber35]. q [AFW94, GH10, Sch99]. S [Bor70, Bor72, Cus86, NRS71]. S2 [Wan98]. $S = 1/2$ [MC92]. su$(2,1)$ [MP92]. SU(3) [CM02, MP92]. u [dB58]. U$(1,3) \otimes_s H(1,3)$ [Low97]. VN(G) [CZ81].

$V\theta$ [Nel72]. XXZ [LFK99, ZG96]. xy [Pug80]. $|kq\{\tilde{K}.\}(k_1 - k_n)\colon [\tilde{\lambda}], \mathcal{S}_n\rangle\rangle$ [Tem91].

-algebra [AFW94, Sud06]. **-algebras** [BT96, Pac88]. **-component** [Isa82]. **-D** [Hen93]. **-deformed** [Sch99]. **-electron** [SHI73]. **-graded** [GH10]. **-groups** [Pac88]. **-Matrix** [Hei89k, Hei89k, Cus86]. **-Meson** [DH62, Hei51l]. **-Mesonen** [Hei51l]. **-orthogonal** [VZ09].

/Das [DRF90a, DRF90b]. **/Deutsches** [DRF90a, DRF90b]. **/European** [Ano84b]. **/Herder** [RFS+91]. **/Max** [vBL96a, vBL96b]. **/Rath** [GRE+01]. **/Weisbuch** [RFS+91]. **/Wissenschaftsrat** [Ano84a, URWB95]. **/Zentrum** [DRF90a, DRF90b].

0 [Fra94, Hen00, Mar94, Tur06]. **0-394-51411-4** [Wil94]. **0-520-08499-3** [Mar94]. **0-520-21077-8** [Hen00]. **0-674-01519-3** [Tur06]. **0-7167-2243-7** [Fra94]. **0-7923-3794-8** [Lan02]. **0-9672617-2-4** [Kra07, Lan08].

1 [Ano08]. **1-Megabit-Speicherchip** [Ano84a]. **1.5** [GRE+01]. **10** [Str62b]. **100** [Hei42a]. **1000** [Hei57b]. **100th** [Hei58l, Hei05b, Jac01, KRW05, Rec01, Rec02b, RH02, vM02]. **109** [RDM+12a]. **112** [FW07]. **12.** [Hei43a, Str62c]. **13.80** [Hei53b]. **14th** [Hei75s]. **15** [BDR84h]. **15.12.1958** [Hei59j]. **16.10.1971** [Hei72f]. **170** [Kra86a]. **18.11.1962** [Hei63h]. **19** [Hei89-36]. **19-24** [vW41a]. **1911** [Meh75]. **1914** [Hei64c]. **1916-1955** [Mar73]. **1925** [AMS04, Hei35e, Hen98]. **1926** [Sta11a]. **1927** [Rig87]. **1928** [Hei29a, HH84]. **1929** [HEB+80, HvMW79, Pye81]. **1930s** [Fie80, Hei93e]. **1931** [Hei31g]. **1932** [Hei32c]. **1933** [CCJ+34]. **1933/Chadwick** [Ano51]. **1935** [Hei35d, Hei85b]. **1935/1936** [Ano51]. **1939** [Hei89m, OSWR86, vMHW85, Hay90, Rec86, Sei90a]. **1939-1945** [Sei90a]. **1939-1949** [Hay90]. **1940** [DDH89e, DDH89d, Hei89h]. **1940s** [MWL+15]. **1941** [Aas02c, DDH89f, DDH89g, Hei41b, Hei89-36, Hei89x, Hei89-34, vW41a]. **1942** [DDH89a, DDH89c, DDH89b, Hei89g, HBF+89a, Hei89n, HBF+89b, HBF+89c, Hei95, KW93, Bar04]. **1943** [Ano44a, Har43, Hei43r, Wal20b]. **1943/1944** [Hei89e]. **1943/44** [Brü64]. **1944** [Ano44a, Hei89-33]. **1945** [BC95, Cas79a, Cas05, HBB+89, HGW89b, HHH03, Hen00, Kan03, Sei90a]. **1946** [Hei47f]. **1946/47** [Hei47f, Hei47f]. **1947** [Sei90a]. **1947-1977** [Sei90a]. **1948** [Hei48a]. **1949** [PvM93, Wal08, vM93, Bro95, Hay90, Kra96]. **1950** [Hei51k, Hei52p]. **1950/51** [Hei52p, Hei52p]. **1950s** [Hei86a, Sei90a]. **1952** [vM96]. **1953** [Hei56g]. **1954** [vM99]. **1954/Mladjenovic** [ARK+99]. **1956** [vM01]. **1958** [vM05b]. **1960s** [ARK+99, Mla98]. **1960s/Frenkel** [ARK+99]. **1962/Gray** [SPS+64]. **1967** [Paw06]. **1968** [BDR84d, Hei69b]. **1970** [BSP+70]. **1971/Benz** [LSK+76]. **1972** [Hei72c, Meh73]. **1973** [Hei73a]. **1974** [CDvW75]. **1976** [BDR85a, MP77, Hah06, Mac78b]. **1977** [Sei90a].

1979 [Rür79]. **1980** [Dür80]. **1984/Zen** [Ano84a]. **1984/Zen-Ereignisse** [Ano84a]. **1985** [CW85]. **1985/Welch** [Ano84b]. **1985/Welch-Stipendium** [Ano84b]. **199** [Bok10]. **1993** [BCEP94].

2 [Ben35, BDR84a]. **2.** [Ano35a, BDR84a, Hei43b]. **2.50** [Deh37]. **20** [Cas93a]. **2000** [Log00]. **20th** [Bro97, Meh73, Sch96a, Bre97, Hei75a]. **20th-Century** [Hei75a]. **22** [CCJ+34]. **238** [Hei41f, Hei89x, vW40]. **24.3.41** [vW41a]. **26** [DDH89c, DDH89b, Hei89n, Hei89-34, HBF+89b]. **26.-28** [DDH89b, HBF+89b]. **27** [Har43]. **28** [DDH89f, DDH89g, Har43, Hei72c]. **28.9.43** [Har43]. **29** [Hei89h]. **298.00** [Hen86]. **2nd** [Hei31b, Hei93d].

3 [Ano44a, Ano08, Büh95, CDvW79, HBB+89, Mar94, Rec03, Tur06]. **3-05-501585-1** [Ano08]. **3-540-13609-6** [Hen86]. **3-86025-315-8** [Büh95, Rec03]. **3.50** [DS43]. **3.85** [Bro72]. **30** [HBF+89a]. **31** [Hei64c, Hei89g]. **33rd** [Ano68]. **35** [DPL96]. **37** [BDR84h]. **38** [DDH40a, DDH41a, DDH41b, Fri98, Hah40, Hei42b]. **38-ball** [HBF+89c]. **38-layer** [HBF+42, HBF+89a]. **38-Metal** [Hei42b, Hei89g]. **38-Metall** [BFH+42b, DDH42b, DDH89b, HBF+42, Hei89g, HBF+89a, HBF+89c, Hei42b]. **3d** [Tho97]. **3rd** [Cas92a].

4.1.1961 [Hei61d]. **4/Pauli** [OSWR86]. **40** [HB82a]. **43** [Sch02a, Wit83]. **47** [Hei47f]. **47th** [IEE06]. **49/Atmanspacher/Primas** [MGG+95]. **4th** [RDP+95].

5 [DDH89d, Hei43r]. **5.** [Hei43c]. **50** [Ben30, Ben34, Clu37, Hei51a]. **500th** [Gin75, Hei86n]. **51** [Hei52p]. **54** [May87]. **55** [BB69]. **5th** [Hei48a].

6 [Ano44a, Hei89m, HBF+89c, vRFS+00]. **6.0** [EHR+96]. **60th** [Fue61, Hei72c, Hei89-37, MF69, Wig96b]. **65th** [Hei44b, PFH20].

7 [DDH89e, Fra94, Hei35d, HGW89b]. **7.80** [Deh36]. **70th** [DB71, HBD71, PRW55]. **72** [Got04]. **75th** [Hei43r, Hei64h].

8 [Büh95, Hen00, Rec03]. **8.** [Hei43d]. **800-Jahrfeier** [Hei58k]. **800th** [Hei58k, Hei74g]. **80th** [Sch82]. **88-389-1450-8** [Pol00].

9.10.1949 [Hei86j]. **90th** [Rec02a]. **95h** [DPL96]. **978-0-521-82170-4** [Sta11b]. **978-0-521-88484-6** [Bok10, Sta11b]. **978-3-540-69221-8** [Hen11]. **989** [FS93].

= [BD92].

A-Bomb [Rec91d, RW92, LRD+91, Bro93, Mac85]. **A-Bombs** [Klo93]. **A.** [BDR89b, Hei51e, Kan03, Wig96j]. **A./Kraus** [GRE+01]. **a.o** [BDR86,

BDR89b, Hen86, HvMW79, vMHW85, vM93, vM96, vM99, vM01, vM05b]. **A/Part** [Bro86, Mat87]. **år** [Boh64]. **Abänderung** [Hei24d]. **Abb** [Büh95, Deh36, Rec03]. **Abbildungen** [HH14]. **abermals** [Haa34]. **abgehörter** [WR92]. **Abgeschlossene** [Hei48e, Hei48d]. **abgeschlossenen** [Hei73e]. **Abhandlungen** [Wit83, Bor63a, Sch27]. **Abides** [Gla00]. **Abroad** [Hei77f]. **Abschied** [Dür76]. **Abschiedsworte** [Hei69a]. **Abschluß** [Hei70a, Hei71a]. **Abschlußbericht** [Eic53]. **absolute** [Hei22a]. **absoluten** [Hei22a]. **Absorption** [Hei38d, Fis41, Hei38d]. **Absorptionsquerschnittes** [Fis41]. **Abstract** [BSP+70, Hei37d, Hei39f, Hei39g, Hei39h, Hei63d, Hei38b, Hei82c]. **Abstraction** [Hei74a, Hei08d, Lac02b, Hei70d, Lac02a, Hei61c]. **Abstrakt** [Hei37d, Hei38b, Hei39f, Hei39h, Hei63d, Hei82c]. **Abstraktion** [Hei61c, Hei70d]. **Abt** [BDR84a, BDR84b, BDR85a]. **Abteilung** [BDR84c, BDR84d, BDR85b, BDR86, BDR89a, BDR89b, BDR93]. **Academic** [Her76a, Hei31g, Rin69, Rin90]. **Academy** [Hei86c, Hei89q, Hei89f, LMOS15]. **Acceleration** [HEB+80]. **Acceleration/Brosche** [HEB+80]. **Accelerators** [Hei73b, Hei72d, Hei72l]. **accident** [Hei72g, Pop16b]. **accidents** [Döp42]. **accommodation** [Hof05, HW12b]. **according** [Hei53b, KH47]. **Account** [Sei90a]. **Achievements** [Ble90]. **acht** [BBH+62]. **Achtzehn** [BBF+57b, ABH+55, ABH+87]. **Achtzig** [Hei38g]. **achtzigsten** [Hei62i]. **acquisition** [Hei39e]. **Across** [Hei74b, Hei71l, Hei73g, Hei76g, Hei77h, Hei84-62, Hei89-29, Cas74]. **Acta** [Wit83]. **acting** [Dje07]. **actions** [DDI03]. **Active** [Hei47a]. **Activities** [vL48a, vL48b, Eic53]. **activity** [Hei56g]. **Actors** [FW20]. **acts** [Dür62, Dür80, Dür06, Fra05]. **actual** [Hei83b]. **Adam** [DT18]. **adaptation** [HW07]. **Adapting** [Hei63a]. **Addendum** [Hei79c, Hei79b, Hei89x]. **Adding** [Wit12]. **Address** [Hei56c, Wig96a, Wig96d, Hei86c, Hei89f, Hei89y]. **Addressing** [CBS20]. **Adolf** [CL83]. **Adrien** [KW87]. **advanced** [DJR93, RS11b]. **advancement** [Hei89p, Hol86, Hol98]. **Advances** [Hei84-43, Hei74p, BDR84h, Hei30f, Hei37d, Hei58m, Hei84s, Hei93c]. **adventure** [MB11a]. **advertisement** [HB+72]. **Adviser** [Eck90]. **Advisory** [Sei90a]. **af** [Ano44a, BR64, Hei35e, RRK+64]. **affair** [HW11]. **Affairs** [Hei73h, Sch11b, Luc04]. **Affäre** [HW11]. **affären** [Sch11b]. **affine** [DDI03, Tor91]. **After** [Hee95, Kae31, And89, GHH02, Hei35e, Kae48b]. **Aftermath** [Wal08, Hen07]. **against** [ABH+55, ABH+87, Hof93, KP07, Mas04, Wei46, Wei99]. **Age** [Cas11, Del13, Hei66b, Hei70e, Hen10, Lal15, Sta11b, Car10, Hei69k, Hei69l, Dje07, Gil09, Hah11, Sei90a]. **Akademie** [Ano08, Hei86c, Hei89f, Hei89q, Rec85a, Wit83]. **Akademie-Verlag** [Ano08]. **Akademische** [Deh36, Hei31g, Her76a]. **Akademischer** [Büh95]. **AKNS** [Bt87]. **Akten** [Dür80, Dür62, Fra05]. **Aktennotiz** [Hei53a]. **Aktionspapier** [RDP+95]. **aktive** [Hei47a]. **aktuell** [URWB95]. **aktuell/Koordinierung** [URWB95]. **Aktuelles**

[Ano84a, DRF90a, DRF90b, Rec85a, RDP+95, URWB95]. **al**
[Bla86, Car97, Hah06]. **Alamos** [McC24, Bet91, SR92]. **Alan** [Jor78]. **Albert**
[Adl03, Bes04, Bro72, CS94, Hei53b, Hei75e, Hei77c, Mar73, Wig96g, BB69,
BB71a, BB71b, BB05, Hei49a, Hei55a, Hei74o, Hei75e, Hei77c, Hei83f, Hol00b,
Meh87, Wig96g, Wig96l]. **Albrecht** [PFH20, PFH20]. **Alemán** [Bal07].
Alexander [Ano71, Hei56g, Hei69e, Hei89-28, Hei69e, Hei89-28, Pfe69].
Alfred [Adl03, Hol93a, LH93]. **Algebra** [Bil03, Sor02, SPS+64, Abd97,
AFW94, BMP87, BM94, BP75, CZ81, DLW08, ES95, FT94, Koo89, LFK99,
LJ08, LWZ10, MMSV98, Sch02a, Sch02b, Sch99, Sud06, Tem91, VZ09].
Algebra/Bermant [SPS+64]. **Algebraic**
[LC71, Nel72, CRR93, KS92, Liu72, Tru72]. **Algebras**
[FO99, BT96, Bt87, BP75, DMdA06, FO94, GH10, GS12, MP92, Pac88].
algorithm [Bec02]. **alle** [Cap01, HB+72]. **allemande** [Lur95]. **allemandes**
[Kar07]. **Allgemeinen** [KPMN20, Hei84-48, Hei84g]. **Allgemeiner**
[Hei58a, Hei84d]. **Allgemeinverständliche** [BDR85a, BDR85b, BDR86].
Allied [Irv67c, Log96, Nag16]. **Allies** [Hof93, Hol93b]. **Alliierten**
[Hof93, Nag16]. **Alltag** [EHR+96]. **also** [Ano29]. **Alsos**
[Gou48b, GP92a, Gou47e, Gou47f, Gou47d, Gou48b, Gou83, Gou96, Mor47].
alt [Hei38g, Hei49a]. **Alte** [Hei61a]. **Alteration** [Hei82c]. **alternative**
[Hau22]. **Alternativen** [Rad83, Rad91]. **alternativer** [Hau22]. **alternatives**
[Rad83, Rad91]. **Alwyn** [Sei90a]. **Am**
[Got04, May87, AH93, Har43, Hei31g, Hei35d, Hei41a, Hei41b, Hei42c, Hei43r,
Hei53l, Hei53q, Hei64b, Hei72f, Hei86m, Hei89i, KPMN20, Wal05, Wal07].
Ambegaokar [HVTK+97]. **Ambition** [Jon08]. **Ambrosius** [Wit83].
America [Sei90a, Stu85]. **American**
[CS94, Hei53b, Sei90a, SPS+64, CHW91, Gou47a, Hei86a, WC84]. **americani**
[Ces18]. **amerikanischen** [Hei53b]. **among** [Hei46e]. **Amy** [Dje07].
anaesthetic [Wil99]. **Analyses** [Bar04, CD94, Mat86b, Mat86a, Mat87].
Analysis
[BSP+70, KED+60, SPS+64, WMG+92, DKLN92, Hei89-33, KW76, Sem03].
Analysis/Bopp [SPS+64]. **Analysis/Mehlin** [KED+60]. **analytical**
[Bes98]. **Analyzed** [Gou47b]. **ancient** [Hei37e, Hei52e]. **and/or** [Mil12].
Andenken [Hei43u]. **anderen** [OS03, vW41b]. **Anders** [Sei90a]. **Anderson**
[Ano51]. **Änderungen** [Hei70b]. **Anfange** [Hei77e]. **Angeles** [Neu99].
Angeles/London [Neu99]. **angeregten** [BH23a, BH63a]. **angewandte**
[Hei56n]. **angewandten** [Hei56j]. **Angst** [Hof93, Ano02a, Hei74c].
anharmonic [KW76, Tru75]. **Anisotropic**
[BHX96, Bra97, DC87, JZ11, TBL02]. **anisotropy** [DKLN92, KGNS10].
Anlage [Hei79c, Hei79b]. **Anlaß** [Hei89b, Sch82]. **anläßlich**
[Hei58k, Hei69b, Hei89a]. **Anmerkungen** [OS03]. **Anna** [Cas05].
annihilation [Hei52s]. **Anniversary** [Gin75, Hei58k, Hei74g]. **Annual**
[Hei73a, IEE06]. **anomalen** [Hei22c, Hei24d, Hei25d, HJ26]. **anomalies**
[Mas04]. **Anomalous** [Hen98, Hei22c, Hei24d, Hei25d, HJ26, Bre23].
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HGT+39, HSBB43, HF46, HHKG50, KHBF43, MPB+24]. **BESSY** [URWB95]. **BESSY-II** [URWB95]. **best** [Rec02a]. **Bestandsaufnahme** [GHH02]. **besteht** [URWB95]. **Bestimmung** [DDH40a, DDH40b, DDH89e, DDH89d, Fis41]. **beszélgetések** [Hei83h]. **Beta** [GR09]. **Beth** [Bor58]. **Bethe** [Bet93, KW03, LFK99]. **Betrachtungen** [DB71, Hei48k, HBD71]. **Betreuung** [Hei53d]. **Betriebsunfall** [Hei72g]. **Better** [Sei90a]. **Between** [Hei76c, Hof05, Lan08, Wüt16, Bok04, BB71a, BB71b, BB05, BM94, Bro72, Bro09, CM02, DC48, Dör05, Fis15, Gou90, Hei53e, Hei75m, HW07, HW12b, KF02, Kra07, Lau07, LTG+12, LD66, NRS71, Sal01, Sch13, SH57]. **Beugungsversuche** [Hei36b]. **Beute** [Nag16]. **Bevollmächtigte** [Mai07]. **Beweise** [URWB95]. **Bewerber** [Ano84a]. **Bewertung** [Hei43k]. **Bewußtseinswandel** [vW88, vW91]. **Beyerchen** [Jor78]. **Beyond** [Bok08, Bun71, Cas09, Dje07, Hei70e, Hei84-55, Hei00a, Hei08c, Huf71, Rod19, Ano11, BW04, Geĭ87, Hei71i, Hei71j, Hei04, NKD+11, Bed09, Sap10, Sch11a, Sta11a, Kea09]. **Beziehungen** [Hei53e, Hei75m, Hei25c]. **Bibliography** [DW52, Kra86a, Rec85b, Rec93, CB84, Cas01, Mat86b]. **Bifurkation** [MGG+95]. **Big** [Hei72a, Hür22, Rec01]. **Bigelow** [HVTK+97]. **Bilddokumenten** [Her01, Her76c, Her84]. **Bilder** [Tel93]. **Bildung** [Hei69k, Hei69l, Hei89-30, Hei49h]. **Bildungswärme** [Hei24c]. **Bill** [HBF+89c]. **Binary** [Gre63]. **Biographical** [CS94, CR84, OS98, Sei90a, BDR86]. **Biographie** [Eck12b, Hen11, Rec09, Rec10, Eck12a]. **Biographies** [FW20]. **Biographisches** [BDR86]. **Biography** [Eck12a, Gar91, Sei90a, Wal20a, Wig96c, Pei92b, Rec10]. **Biological** [Cop81]. **biquadratic** [PDL92]. **Birkhäuser** [Kra86a]. **Birkhoff** [KJ06]. **Birth** [BH83a, BH83b, Gin75, BD92, BH82]. **Birthday** [Hei44b, Hei54e, Hei64h, HBD71, Jac01, KRW05, Rec01, RH02, Wig96b, vM02, DB71, Fue61, Hei35d, Hei43r, Hei58l, Hei62i, Hei72c, Hei86n, Hei89-37, Hei05b, MF69, PRW55, PFH20, Rec02a, Rec02b, Sch82]. **Birthwistle** [Hei28a]. **bis** [BDJ57, Büh98b, Cas79a, Cas05, Fis10a, Fis12a, Hau22, Hei72a, Hei30a, HHH03, Hen11, HH14, Rec09, Rec10, vRFS+00, vW02, vWR04]. **Bisher** [Ano84a]. **Bisherige** [Hei79c, Hei79b, Hei85b]. **bisherigen** [Hei38f]. **bisherighen** [Hei84-48]. **Bislang** [RDP+95, HHHH11]. **black** [Bes04]. **Blätter** [Ano84a]. **Blätter/Bisher** [Ano84a]. **Blaue** [URWB95]. **Blocks** [Ano43, Hei53o]. **Blokhintsev** [Hei56l]. **Blomeyer** [Hei53b]. **Blum** [Bro85, Bro86, Kra86a, Mat87, Sch91b, TW91]. **Board** [Hei64b]. **Body** [Hei89k, Hei27c, vV78, Hei26a]. **Bohmsche** [GRE+01]. **Bohr** [Aas02b, Adl03, Ano02a, ARK+99, Bor58, Bro95, Car97, Eis00, Fay07, Fer07, For09, GRE+01, HEB+80, Hei35d, Hei63h, Hei86g, Hen86, HvMW79, Kra96, Kra07, Lak96, Lan72, Lan08, Lau07, MGG+95, OSWR86, Par06, PHvMW01, PvM93, Paw02a, Pye81, Rec86, Sch11c, Tur06, vMHW85, vM93, vM96, vM99, vM01, vM02, vM05b, Aas00, Aas02a, Aas02b, Aas02d, Aas02c, Aas02e, AK15, Ano02a, Bel92, Ber95, BR64, BH23b, Bro71, Cam07a, Cav14, CG14, Dah02a,

Dah02b, Dir28, Dör05, Fav05, FK85, GLSC01, Got02a, Hei28c, Hei35d, Hei62a, Hei86g, Hei10a, HvMW79, Hol05, Lan72, Lin07, Lin08, Los61, Mas04, Meh87, Pai91, PRW55, PHvMW01, PvM93, Paw02a, Plo10, Pow02, Rhe91, RRK+64, Roz67, Sch00b, Shi83, Shi86, Tan04, Telxx, Yam02a, vD15]. **Bohr** [vM02]. **Bohr-Dokumente** [Paw02a]. **Bohr-Heisenberg** [Dah02b]. **Bohr-Sommerfeldschen** [vM02]. **Bohrende** [Paw02a]. **Bohrs** [Hei10a, Hei62a]. **Bohrschen** [BH23b, Hei75g]. **Bomb** [Ano93a, Ano02a, Bed03, Bed04, Ber92, BC95, Ber95, BL03, Bet93, Bro93, Car99a, Cas93b, Cha92, Cho02, Gla00, Gol92, Gol95, Gou47a, Hei68i, Hei93f, Hei95, Hen00, Hof93, Lan02, Lau58a, Lib68, Log93, Log99, Luc11, Neu99, Pei93b, Rho86, Sch01, Sei90a, Sti47, Wal99, Wal20a, Wal24a, WHF+96, Ano99, Bal07, Brü64, Cas09, Erm89, FR08, GP92a, GP92b, Hau22, Hei48g, Hei48i, Hei50e, Hei67a, Him90, Irv67b, Irv67a, Jon85, Kae48a, Kar05c, Kar05b, KW05, Kar07, KP07, LS93a, LS93b, Log96, Luc05, Luc16, Lur95, Mac85, Mac86, Mac87, NW95, Pei92a, Pop16b, Pop16a, Pow93a, Pow93b, Pow94, Pow00, Ree24, Ros98, San02, SR92, Telxx, Tel01, Wal90b, Wal93, Wal95, Wal24b, Wel92, Zan02a, Zan02b, vCH18, vS14, Pop16c]. **Bomb** [Bed09, Rec91d, RW92, Sta11a, Wal90a, Wal17, LRD+91, Ber93, Hol93a, Klo96, LH93, Sap10, Sei90a, Swe93, Wil94, Cas93a]. **bomba** [FR08, Kar06]. **Bombe** [All06, Ano02a, Cas02a, Hau22, Kar05c, KP07, Luc05, Sch01, Kar07, Luc16, Lur95, Him90, Kar05b, vS14, Hof02]. **Bombs** [Klo93, Pop21, Wal22, Sei90a]. **bond** [Hea11]. **Bonhoeffer** [BMG+50, Hei86b, Hei86b]. **Bonn** [HR+89, BBH+62, Hei53q, HR+89]. **Bonner** [BBH+62]. **Book** [And89, Ano54, Ano68, Ano94, Bed09, Ber93, BDR86, Bok10, BB96, Bor58, Bor53, Bro72, Bro85, Bro86, Bro95, Bro97, Bun71, Car97, Car99a, Cas74, Cas93a, Cas97, Cas02a, Cas03, Cas05, Cas11, DT18, Dje07, Dre92, Fay07, Fel54, Fer07, For09, Fra94, Fra10, Gar91, Gre10, Hab83, Hay90, Hei72a, Hei32a, Hei75g, Hei93b, Hei93d, Hen86, Hen11, Hol93a, Hol00a, Huf71, Joh59, Jor78, Kle54, Kra86a, Kra96, Kra07, Lan02, Lan08, Lau07, Lev95, Lib68, Log99, Mac78b, Mac58, Mar94, Mar73, Mot85, Neu99, Par06, Pau31, Phi92, Pol00, Pye81, Rec85b, Rec86, RS11a, Roh85, Rud58, Sap10, Sch59, Sch91b, Sei90a, Sta11a, Sta11b, Str62a, Swe93, TW91, Tre01, Tre78, Tur06, Wal08, Wat01, Wei85, Wig67, Wil94, Rec02b]. **Book** [Ess71, Hei25a, Hei27b, Hei27a, Hei28b, Hei31b, Hei31c, Hei35b, Hei36b, Hei36a, Hei36c, Hei39a, Hei39b, Hei43g, Hei43h, Hei43i, HF46, Hei50a, Hei50b]. **Books** [BDR84e, Hei54a, LH93, Rec84, Sei90a, AFG90, BDR84b]. **Boorse** [Sei90a]. **Bopp** [Hei89-37, SPS+64, Hei89-37]. **border** [Sch05]. **borders** [Bei13, Ben13, Hei71l, Hei73g, Hei76g, Hei77h, Hei84-62, Hei89-29]. **Born** [Bro72, Hei72a, Hei27a, Hei62i, Hei71h, KED+60, Mar73, Sch05, Sch07, Sch26, Sch66, Fue61, Bac22, BB69, BB71a, BB71b, BB05, Bro72, Gal01, Geĭ70a, Gre05, Hei62i, Hei70g, Hei71f, Sch05, Sch07, dG14]. **Borna** [Geĭ70a]. **Borries** [BMG+50]. **Bosković** [Hei59f]. **Boston** [Kra86a, CW85]. **both** [Büh98a]. **Bound** [DeG74, Kle78, SZ73, SZ74, Tru72]. **Boundary** [Dun86, Ni04a, Ni04b, ZG96]. **br** [Ben35, Hei52f]. **Br.** [Hei52f]. **bracket**

[Geĭ58]. **Bragg** [CS94]. **braided** [BM93]. **branches** [Hei39d, Hei40b]. **Brandmüller** [MGG+95]. **Brandt** [SPS+64]. **Braucht** [Hei68b]. **Braun** [LSK+76]. **breaker** [Log93]. **Breakthroughs** [Cre10, Gre10, Lig05]. **Brennan** [Bro97, Cas97]. **brev** [Sch15]. **Brewster** [Jor78]. **Brief** [Hei56a, HGW+89a, Hei89-30]. **Briefe** [Cas05, Hei79c, HHH03, Hei05b, Hof23, Kan03, KRW05, Som36]. **Briefwechsel** [ARK+99, BB69, Car97, EB82, Eis00, GRE+01, HEB+80, HHHH11, Hen86, HvMW79, Kra96, MGG+95, OSWR86, PHvMW01, PvM93, Pye81, vMHW85, vM93, vM96, vM99, vM01, vM05b]. **Brighter** [Jun58, Jun82, Jun56, Jun57, Jun64, Jun72, Jun90, Lau58a]. **Brillouin** [Hei31c]. **Bringing** [Stu85]. **Bristol** [Wat01]. **British** [Jon78]. **Broadway** [Sch00b]. **Brod** [MGG+95]. **Broglie** [Ano35b, Cas75, Deh36, Haa34, RFS+91, Ano35b, DC48, Haa34, Loc07, Mil58, PSZM02]. **Broken** [Dje07]. **bronia** [Kar06]. **Brooks** [CS94]. **Brosch** [Ano08]. **Brosche** [HEB+80]. **Brownian** [Isa82]. **Brückner** [RFS+91]. **Brussels** [CCJ+34]. **Bruxelles** [CCJ+34, Far01]. **Buchbesprechung** [Ano35a, Ano06, Deh36, Deh37, HVTK+97, Hei30c, Jac03, Mos42, RFS+91, Wil36a, Wil36b, Wit83]. **Buchbesprechungen** [BDR86, EHR+96, MGG+95, OSWR86, WMG+92]. **Bücher** [Ben30, Ben34, Ben35, Clu37, ARK+99, BMG+50, BDR84b, BDR84e, BSP+70, Büh95, GRE+01, HEB+80, HMSH78, Jac11b, KED+60, LSK+76, SCH+78, SPS+64, vRFS+00]. **Build** [Gol92, KH19, Hei67a, Hei67g, SR92]. **Building** [Ano43, Gol95, Hei53o]. **Built** [Bed03, Bed04]. **bulk** [Eck70]. **Bulletin** [FR98]. **Bunde** [MGG+95]. **Bundesregierung** [Hei53d]. **Bundesrepublik** [Hau22, Hei65d, Sch05, Sch07, Hei57d]. **Bundestag** [Hei53q]. **Bundestages** [Hei53q]. **Bunin** [Ano33]. **burdens** [Hol86, Hol98]. **burner** [HW84b]. **Burns** [Sei90a]. **Bush** [Gol92]. **bust** [Hei86o]. **Büsten** [Rec91a, Rec91b]. **busts** [Rec91a, Rec91b].

C [Adl03, Ano94, Bed09, BDR85a, BDR84c, BDR84d, BDR85b, BDR86, BDR89b, Bor53, Büh95, CS94, CD94, Dre92, Fra94, Gar91, Kea09, Kra86a, Mat86a, Phi92, Rec03, Sap10, Sei90a, Sta11a, Swe93, Tho97, Wei85, BDR84c, BDR84d, BDR85b, BDR86, BDR89b]. **C.** [Erm89, Hah06, Hah11, Hei72c]. **CA** [Kra07]. **Calcul** [Per39]. **calculation** [Bec02, KW02, KW03, Liu72, McC24, HJ43, Per39]. **calculational** [AMS04]. **Calculations** [LD66, El 00, TR09]. **calculus** [DLW08]. **Calder** [BDJ57, BDJ57]. **California** [Kra86a, Lan02, Lan08, Neu99, Ano34, IEE06]. **Callaghan** [WMG+92]. **called** [Hei89j]. **cambiato** [Lud01]. **Cambridge** [Bok10, Cas11, Hay90, Par06, Sta11b, Tur06]. **came** [Log96]. **Camilleri** [Bok10, Eng09, Fra10, Sta11b]. **Campaign** [Bør12]. **can** [Mas04, SK09, Hei79b]. **Canham** [CS94]. **Canonical** [Car71, KF07]. **Canonically** [Low97]. **Cape** [Cas93a]. **Cappellari** [Kra86a, Mat86a, Wei85]. **caractéristique** [DC48]. **carbon** [Hei27b]. **care** [Hei49g]. **Carl** [Ano02a, BMG+50, GRE+01, Hei02, Rec02a, Ano02a, Cas14a, Cas15, Eck70,

Hei02, HH14, KF01, Rec02a, vWL93]. **Carlo** [HN99]. **Carnap** [LSK+76]. **Carolina** [BCEP94]. **carried** [Hei89-40]. **carrying** [Hei41g]. **Carson** [Cas11, Hah11, Hen10, Sta11b, Lal15]. **Cascade** [Hei43b]. **Case** [Gou47b, Han79, Joh13, Jor78, SS16, Wüt16, dR99, Gau14, Wis98]. **Cassidy** [Ano94, Bed09, Büh95, CS94, Dre92, Fra94, Kra86a, MGG+95, Mat86b, Rec85b, Rec03, Sap10, Sta11a, WMG+92, CD94, Gar91, Kea09, Swe93, Phi92]. **cast** [Ano12]. **Cat** [Bru80]. **Catastrophe** [LH93]. **Catherine** [Bar04]. **Cathryn** [Lal15, Sta11b, Cas11, Hen10]. **causal** [Hei58c]. **Causality** [Bor58, Hei51m, Hei52a, Hei30h, Hei30g, Hei31e]. **cause** [Hei32h]. **Cave** [FTF01]. **Cayley** [Tem91]. **CD** [Hah10]. **CD/DVD** [Hah10]. **Celebration** [KRW05, Hei89a]. **Celia** [FB00]. **Centenary** [BCEP94, FK85]. **Centennial** [BW04, Hei04, PS69]. **center** [CZ81]. **central** [BP75]. **Centre** [Meh73, RDP+95]. **centrifuge** [HJ43]. **Century** [Bro72, TW10, Bra09, Hei75k, Lig05, Meh73, Sch96a, Bre97, Hei75a, Bro97, Cas97]. **ceremony** [Hei64b, Hei86m, Hei89b, Hei89u, Hei60c]. **CERN** [DRF90a, DRF90b, Hei72f, Hei72f]. **Certain** [AP22, DM99, GV86, Gre05, Wre75]. **certificates** [HR02b, RW02]. **certifications** [Her76c, Her84, Her01]. **Cf** [DK78]. **Ch** [Ano08]. **chaîne** [Per39]. **Chadwell** [Sei90a]. **Chadwick** [Ano51]. **chain** [BG96, Bec02, DKLN92, DC87, DGS99, DL08, Hou41, KSSA78, KKM+09, LFK99, Lun84, Per39, PDL92, Wan98]. **Chains** [Unr72, CRR93, DM99, DMCF06, JKS13, MC92]. **Chairman** [Hei64b]. **Challenge** [Sta09a]. **Cham** [Cru23]. **Chamber** [Hei53q]. **champ** [Hei67k]. **Chance** [Hei51e]. **Chandra** [LJ08]. **Change** [Hee75, Gau14, VB15, vW88, vW91]. **changed** [Luc04, Lud01, VB15]. **Changes** [Str62a, Hei34i, Hei34f, Hei34g, Hei34h, Hei35f, Hei36h, Hei43t, Hei44d, Hei45b, Hei47i, Hei49l, Hei59i, Hei70b, Hei73j, Som36]. **Chaos** [BKBS93, Cap01, EHR+96, MGG+95, Sch91a, DKLN92]. **Chaos/Plaschko/Brod** [MGG+95]. **Chaotische** [MGG+95]. **characteristic** [DC48]. **characteristics** [KF07]. **Charge** [Sch13, Hei34e]. **Charles** [HVTK+97, Mar94]. **charms** [Ber91]. **Chast** [Geĭ90]. **chastits** [Geĭ77c]. **chastitsa** [Geĭ56]. **che** [Lud01]. **Cheating** [Ano04a]. **chef** [Ost11]. **Chem** [BMG+50]. **Chemical** [BSP+70, BH24a, BH63b, Hea11, Hei24c, Hei41b]. **Chemical-Physical** [Hei41b]. **Chemie** [BSP+70, Hah40, Hei53e, KED+60, MGG+95, Sim07]. **Chemie/Dictionary** [MGG+95]. **Chemie/Fletscher** [BSP+70]. **Chemielehrer** [Ost11]. **Chemisch** [Hei41b]. **Chemisch-Physikalische** [Hei41b]. **chemische** [BH24a, BH63b, Hei24c]. **Chemistry** [Joh13, Hei53e, Ost11, Hah40, MGG+95, Sim07]. **Chemists** [Joh13, Har60]. **Chevalley** [Bar04]. **Chief** [RS11a]. **Chimäre** [Hau22]. **chimera** [Hau22]. **Chimerical** [Bru80]. **Churchman** [KED+60]. **Ci** [Arg09]. **Ciencia** [FR04]. **circle** [BR64]. **Citizen** [Sei90a]. **City** [Hei74g]. **cksprache** [vW1]. **Claim** [Gou49]. **class** [NRS71]. **Classical** [BHN98, Boh62, Bok08, Cam07b, Bes04, Bok04, Isa82, JLP+02, LH01, MP92, PDL92, TBL02, Wre75, Yeh70]. **Clerk**

[Bes04]. **Climate** [Gol92]. **cloak** [BBF+45, HBB+89]. **close** [SAR+09]. **Closed** [Bok06, Bok04, Hei48e, Hei48d, Hei74i, Hei83d, LFK99]. **Closing** [Hei50g, Hei53q]. **cloth** [Bed09, Cas05, Cas11, Neu99, Par06]. **Cloud** [Sei90a]. **club** [Ber96, For22]. **cluster** [GbK77, KSGB+83]. **cm** [BBF+45, HBB+89]. **Co** [Ano94, Fra94, RRK+64]. **co-workers** [RRK+64]. **Code** [Pag82]. **codes** [BPP11]. **Cohen** [Men84]. **coherent** [BK88, CM02, KSGB+83]. **Coin** [FR13a]. **Coined** [Gal01]. **Cold** [Sal19]. **collaboration** [BLW19, Dür05, vM05a]. **Collapse** [CK02b, CK02a]. **colleagues** [BR64, RKW05, Roz67]. **Collected** [BDR84a, BDR84b, BDR85a, BDR84c, BDR84d, BDR84e, BDR85b, BDR86, BDR89b, BDR93, Bro85, Bro86, Kra86a, Mat87, Sch91b, TW91, Wig96m, BDR89a]. **Collective** [HEB+80, Hei65i, Hei84z, SME77]. **college** [Hei72j, SM41]. **collide** [Wal08]. **Collisions** [Hei84-28, Hei55e, Hei56l, Hei83g, JD06]. **Colloquium** [CW85, UM92]. **color** [Hei41d]. **colour** [Hei52o]. **Columbia** [Ano29]. **Combs** [Ano04a]. **comedy** [Dür62, Dür80, Dür06]. **Commemorating** [Gin75]. **Commemoration** [Her76a, Hei69f, Hei71f]. **Comment** [Got04, Rab48]. **commentaries** [BB05, Bro72, Yan13a]. **Commentary** [Got83, Yan13b, Cru23]. **Comments** [HH75, Hei75h, HS81, OS03, Hei69i, Rob82, Bor63b, Hei42b, Hei56d, Hei72b, Hei84e, Hei84f, Hei89g]. **Commission** [Sei90a]. **Committee** [Sei90a]. **Communicating** [vD15]. **communication** [Hei28c]. **communicazione** [Hei28c]. **communists** [Bro09]. **Community** [Hab69, Jor78, Bey77, Rin69, Rin90, Mai07]. **Como** [And89]. **compact** [Wan98]. **comparative** [SW05, Hei51l]. **Comparison** [Los61, Eck33]. **Compartmentalization** [Gol95]. **Compendium** [GHW09]. **complement** [Hei85d]. **complémentarité** [DC48]. **Complementarity** [Bel92, Cam07a, DC48, vD15, Meh87]. **complementary** [Loc07]. **Complete** [Hei68j, Hei73e, Hof23]. **Completed** [Hei79b]. **Completion** [Hei70a, Hei71a]. **Complex** [RFS+91, LM87]. **complexes** [OD03]. **Complexity** [vRFS+00]. **component** [Hei38d, Hei41c, Hei84n, Isa82]. **components** [SH22a]. **composed** [DDH89a]. **composition** [Hei39c, Hei84j]. **compressible** [DGS99]. **Compton** [Wil84]. **computation** [Ras78]. **Computations** [SK73]. **Computer** [DRF90a, DRF90b, IEE06, Wal08]. **con** [Hei84-55, Hei00a, Hei08c]. **concentration** [CP84]. **Concept** [BR96b, Hei65l, Car76, Hei51i, Hei69c, Hei71c, Hei82c]. **ConceptDraw** [GRE+01]. **Conception** [Han62, Hei60g, Joh59, Sch59, Hei58r, Hei70i, Meh73]. **Conceptions** [LBBH69]. **Concepts** [Boh62, Cam07b, Hei75a, Hei75j, Hei75b, Ome75, Str62a, GHW09, Hei73d, Hei75l, Hei75k]. **Conceptually** [dlP80]. **Concerning** [BCL+69, Hei37a, Hei58n, Hei65n, Hei84t, Hei84-38, Sno49, Jes98]. **conciencia** [FR04]. **Concluding** [Wig96d]. **conclusion** [Log96]. **Condensed** [ARK+99]. **condition** [Mül40, Ter82]. **conditions** [Hei59b, MF69, Mon04, Per39, Tru72]. **cones** [Pac88]. **Conf** [BSP+70]. **Conference** [BCEP94, Hei75s, RDP+95, AK15, CDvW75, CDvW79, GZ95,

Far01, Sta11a, BV09]. **conferences** [Meh75]. **configurations** [Woo77]. **Conformist** [Jor78]. **Congratulations** [Hei86g]. **Congress** [Hei64b]. **Congruence** [Nel72]. **conjecture** [LN06]. **Connected** [Hei34e]. **connecting** [dB58]. **connection** [BM94]. **Connections** [Ano60]. **Conrad** [MGG+95]. **conscience** [FR04]. **consciousness** [Wal08, vW88, vW91]. **conseil** [CCJ+34]. **Consequences** [HE06, Hei89v, HE35]. **Conservation** [GLR14]. **Considérations** [Hei34c, Hei84b, Hei32e, Hei34c, Hei48k, Hei72l, Hei84b]. **conspiracies** [Cas93a]. **constant** [BK04, Bro77, DHYY65, Hei45a, Mie80]. **constants** [BH24a, BH63b, DH65b, Hei24c, OD03]. **Constitution** [Gam30]. **constrained** [Lun84]. **Construction** [HW48, Hei72d, Hei73b, CM02, Hei72l, HW84b]. **contemporanee** [Cas14b]. **Contemporary** [Hei58v, Cas14b, Hei53c, Hei55b, Hei56f, Hei57c, Hei58o, Hei58e, Hei59a, Hei60a, Hei62b, Hei63b, HG65, Hei66a, Hei68c, Hei70c, HnH72, Hei74d, Hei74m, Hei76e, Hei79d, Hof23]. **content** [Hei27e, Hei83b, Oza03]. **contents** [Hei77j]. **Context** [Pan02, Hau22, HW11]. **Contextualized** [Hen10]. **Contingency** [Lev95, Cus94]. **Continual** [MP92]. **continued** [DR92]. **Continues** [BSMB99]. **Continuous** [BMP87, BM94, Lun84]. **continuum** [DKLN92, Isa82, PDL92, Ter82]. **Contracting** [Lan59]. **contraction** [ES95]. **Contribution** [Hei32b, Hei84c]. **Contributions** [KRW05, Rür79, Hei05b]. **Control** [Hei76b]. **controversial** [Eck01]. **Controversy** [Gou90, Rad83, Rad91]. **conversas** [Hei96c]. **Conversation** [Hei67h, Hei67i, Hei67g]. **Conversations** [Hei70e, Sch01, Hei71e, Hei71i, Hei71j, Hei75e, Hei77c, Hei83f, Hei96c, Bun71, Huf71]. **cooling** [SAR+09]. **Cooperation** [Sal19, Hei56i, Hei89p]. **coordinates** [KF07]. **Copenhagen** [And89, Kra07, Lan08, Lev95, Wal08, Aas00, Aas02c, Ano02b, BJN01, BSMB99, Cas00, Cas02b, Cus94, Dör05, Fra98, Fra00, FB01, Fra05, HB63, Hei89r, Hei91b, Hei07a, Kar05a, Lau07, OS03, Paw02a, Pow03, Wal19, vW41a, Dje07, BW00a, BW00b, Hol00a, Ros00, Sch00b]. **Copenhagen.** [Log00]. **Copernicus** [Gin75, Hei86n]. **Coral** [BSP+70]. **Core** [Cas79b, Pan02, SHI73, JD06]. **Core-Context** [Pan02]. **Cornelius** [BCEP94]. **Corporation** [Ano29]. **corpuscles** [BDR84f, Hei36d, Hei37b, Hei84l]. **corrected** [Pop16c]. **Correction** [Hei34b]. **Corrections** [Ano93a]. **correctness** [Hei73e, Hei83d]. **Correlation** [Fal64, HS70, LL86, May87, Mor71, Mor72b, DC48, Mor72c, Pea76, SL70, DC48]. **Correlations** [AG88, vRFS+00]. **Correspondance** [Mar73]. **Correspondence** [BB69, Bro72, Bro95, Car97, Dah02a, Dah02b, Eis00, HH17, Hen86, HvMW79, LS93b, Rec86, vMHW85, vM93, vM96, vM99, vM01, vM05b, BB71a, BB71b, BB05, HHHH11, JLP+02, LH01, PHvMW01, PvM93, EB82, Hei25b, SH57]. **Corrigendum** [Ano25]. **cose** [Cap01]. **Cosmic** [EH38, Hei39f, Hei39g, Hei39h, Hei43o, Hei46a, Hei51l, Hei53u, Hei75i, Hei75s, Hei76d, Hei77d, Hei84h, Hei84y, MGG+95, Pag82, RFS+91, BDR84g, EH84, GE38, GE39a, GE39b, Hei32h, Hei32e, Hei36g, Hei36j, Hei37a, Hei38d, Hei38a, Hei39j, Hei41c, Hei43r, Hei53t, Hei84n, Hei84i, HW84a, Hei84-44,

Rec02a, BBB+84, Hei43p, Hei51f, Hei53l, HMW+84]. **cosmic-ray** [Hei37a]. **Cosmological** [ARK+99, CBS20]. **Cosmology** [Hei68d]. **Costandina** [Sei90a]. **could** [Hei67g]. **Council** [HR53, Hei53q, Hei64b, HR+89, Hei89-38, Eic50, Eic53, Hei49g, Hei50c, Hei50g]. **Countdown** [Sei90a]. **counter** [Irv67c]. **counter-measures** [Irv67c]. **coupling** [Bro77, DH65b, Hei27b]. **Courier** [Hei60d]. **Course** [SPS+64, Luc04]. **CPU** [BPP11]. **Cracow** [Wal20b]. **Crafting** [Set10, Sta11a]. **Crazy** [Arr06]. **Crease** [Gre10]. **Creation** [Hei34e, Oor09, Žup65, Wal93, FS93]. **Creator** [Dje07, Ful15]. **creators** [Str11]. **crimes** [Wei46, Wei99]. **Crisis** [Hei85a, Rad83, Rad91, Cas76, Rin61]. **criteria** [Hei73e, Hei83d]. **Critical** [BHX96, Log96, Rec81a, Sta09a, Ber02, Cas05, El 00, HHH03, Kan03, McC24, TBL02]. **criticism** [Geĭ70b, Hei89-35]. **Croatian** [Hei97]. **croix** [Luc05]. **cross** [DK78, Fis41, Luc05]. **cross-sections** [DK78]. **crossers** [Sch05]. **Crossing** [Bei13, Ben13, Hei24b]. **Crossroads** [Sta11a, BV09, ET07]. **Cruz** [Sei90a]. **Cryptography** [BBE92]. **crystal** [KW76]. **crystals** [Hei33c, Hei84-41, Jau93]. **cuántica** [FR08, HBS96]. **cuánticas** [W+87, WdC02]. **Cube** [KH19]. **Cuestiones** [W+87, WdC02]. **Culture** [CS94, Hen00, Lan02, Cas14b, PFH20, Ros98, Neu99, Car99a, Log99, Wal99]. **cultures** [Cas14b]. **Cummings** [IM95]. **CuO** [VBN95a, VBN95b, vBN95c]. **cuprous** [Man91]. **cura** [Pol00]. **Curies** [Kae48b]. **curious** [Gau14]. **current** [Hei38e, Hei53t, Hei55c, Hei61b, Hei84-48, Hei84k, Hei84m]. **Curriculum** [Hei86d, Hei86h]. **curvature** [Mie80]. **Curve** [Gam30, Hei31l]. **Cushing** [Lev95]. **Cut** [vBW88]. **Cyclotrons** [Row09]. **Czech** [Hei69i]. **Czechoslovak** [Hei89y].

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Decades [Sei90a]. **Decay** [GR09, HVTK+97, Hei43d, Gau14]. **December**
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decline [Rin69, Rin90]. **decoherence** [BM11, CL94].
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[GWW+09]. **deformed** [GH10, Sch99]. **Deformierbarkeit**
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[Arg09, Fer99, Hei36a, Hei60e, Hei99, Pol00]. **dell'epistemologia** [Arg09].
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[CR12]. **Deutsch** [BSP+70, GRE+01]. **Deutsch-Englisch** [GRE+01].
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Nag16, SM41, Wal90b, Wal93, vS14, Men36, Sch11b]. **Deutschen**
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Hei55d, Hei56b, Hei56h, Hei63a, Hei63c, Hei65c, Hei71c, Hei75k, Hei84-51, Hei84o, HH84, HBE87, Meh75, PRW55, Hei35e]. **Developments** [BW04, Hei04, Hau22, Hei56b]. **Devil** [Cor03]. **Dezember** [FS93, Hei43r, Hei48a, Hei71h, RDP+95]. **Dezember-Heft** [FS93]. **DFG** [DRF90a, DRF90b]. **DFR** [HR53, HR53]. **d'Heisenberg** [Ech96, dB82]. **d'Hitler** [Luc16]. **Diagrammatic** [SL70]. **Dialog** [MGG+95]. **Dialogue** [Bel92, Bel99, Hei74e, Wüt16]. **Diaries** [Hah45]. **Diary** [Sei90a, HHHH11]. **dice** [MB11a]. **Dickens** [HVTK+97]. **Dickens/Krätz** [HVTK+97]. **Dictionary** [DG99, MGG+95]. **Did** [Ber95, LH93, Pop21, RW92, Wal22, Hei67a, Kat96, MS15, Ols63, Pop16a]. **Diebner** [vW1]. **died** [Kva76]. **Dies** [Hei68e]. **Difference** [Kor05, AFW94, Bt87]. **different** [HJ43]. **Differential** [Bt87, Hei32a, LSK+76, Hei22b, Hei84w]. **Differential-difference** [Bt87]. **Differentialgleichungen** [Hei22b, Hei84w]. **difficult** [Luc82]. **Difficulties** [Ano34, Hei93c, Jes98]. **Diffraction** [Hei36b]. **Diffusion** [ARK+99, DDH40a, DDH40b, DDH89e, DDH89d, Hei31i]. **Diffusionslänge** [DDH40a, DDH40b, DDH89e, DDH89d]. **Dilute** [Rus64, KSSA78]. **dimension** [Hei22a]. **Dimensional** [Fis64, BT78, DMdA06, Isa82, PDL92, Woo77, ZG96]. **Dimensionen** [Hei22a]. **dimensions** [DPL94, DPL96]. **Dingler** [BMG+50]. **Diplomacy** [Hei76b]. **Dirac** [Ano33, Ano51, Ben34, Deh36, Haa34, Hei30c, Lak96, Smo93, Wig96a, Wil36b, Ano34, Ano35b, Ano75, Bok04, BR87, Haa34, Hei30b, Hei34b, Hei34a, HE35, HDW75, HE06, KW87, LW34, Nis32, Smo93, Wig96d, Wig96k]. **Diracschen** [Hei34b, Hei34a, HE35]. **Direct** [EMGM94, KW02, KW03]. **Director** [Sei90a]. **Dirichlet** [GV85, GV86]. **disappearance** [GHH02]. **Discontinuous** [Sta11a]. **discourse** [Sal01]. **Discoverer** [Hei68e]. **discoveries** [Bra09, Lig05]. **discovering** [Ano20]. **Discovery** [CR12, Gin75, GR09, Pan02, Rog13, Shi78, Sim00, Bel85, CHW91, Hei58g, Hei58h, Hei58i, Hei60e, Hei74k, Kae48b, Sim89, WC84]. **Discrepancy** [LD66]. **Discrete** [Kor05, Zak96, DM99, DL08, Sud06]. **Discussing** [Mil12, Fri11]. **Discussion** [Dir28, Hei53i, Hei56l, Hei62d, Hei62e, Hei62c, Hei75n, Hei84c, Pau34, Hei32b, Hei62d, Hei62e, Hei62c]. **Discussione** [Hei28c, HSBA60]. **Discussions** [Hei69d, Hei72e, Hei73c, Hei81b, Hei81c, Hei83e, Hei84-50, Hei85c, Hei86e, Hei87b, Hei88, Hei96a, Hei01a, Hei06, Meh87, CCJ+34, Hei28c, HSBA60]. **Diskurs** [Sal01]. **Diskussion** [Rec85a]. **Diskussion/Neutronen** [Rec85a]. **dispersion** [Hea77]. **Display** [Sim10]. **Disposal** [SPS+64]. **Dispose** [Ano34]. **dispute** [Sal01]. **Disputed** [Gou49]. **Disputes** [Gou47a]. **Dissertation** [KPMN20]. **Distance** [Aas02a, Cop81]. **distinction** [Mon04]. **distributed** [Jor78]. **Distribution** [KBWJ96, Mor72a]. **Disturbance** [RDM+12a, RDM+12b, D'A03, Wis98]. **disturbing** [JD06]. **divergent** [Cam07a]. **DM** [Büh95, Hei53b, Hen86, Str62b, Str62c, Wit83]. **Do** [Sei05, Mas04]. **Dobzhansky** [Adl03]. **doch** [NW95]. **Doctor** [Dje07].

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[Hei25b, Hei51m, Hei89-32, Hou41]. **Fragen** [Hei36f, Paw02a]. **fragment** [BGĬ90]. **fragmentation** [Hei32h]. **frailty** [Gra00]. **frame** [Hei51h]. **Frames** [RS94]. **Framework** [Car02a, Car02b, Hei46b]. **France** [Ano33]. **Frank** [Mar94]. **Franz** [Han79]. **Fraser** [vRFS+00]. **Fraunhofer** [Rec85a]. **Fraunhofer-Gesellschaft** [URWB95]. **Fraunhofer-Institut** [Rec85a]. **Frayn** [Kra07, Lan08, Lau07, Log00, Dör05, Ros00]. **Frederic** [Tho97]. **Free** [Com31, Hei76b, Mar31, HBB+07, KW03, Oor09]. **Freeman** [Ano94, Fra94, WMG+92]. **Freeon** [MC97]. **Freiberg** [DRF90a, DRF90b]. **Freiburg** [Hei52f, Hei52f]. **freigegeben** [Paw02a]. **Freiherr** [Cas15, Hei02]. **Fremde** [HW11]. **French** [BH28, BH84, CCJ+34, Dem15, DC48, Ech96, Fra93a, Gou48b, Hei34c, Hei53p, Hei57a, Hei62d, Hei62e, Hei62c, Hei67k, Hei68h, Hei84b, Hei84-61, Kar07, Luc05, Luc16, Lur95, Per39, VB15, dB58, dB82]. **Frenkel** [ARK+99]. **Fresh** [SPS+64]. **FRG** [Eck90]. **Friction** [HEB+80]. **Frieden** [Hei89d, Hei89c]. **Friedensforscher** [Rec02a]. **Friedensforschung** [HH14]. **Friedliche** [Hei53k]. **Friedrich** [Ano02a, ARK+99, Cas14a, Cas15, GRE+01, Hei72a, Hei02, HH14, Rec02a, vWL93, HKvL47]. **friends** [BR64, RRK+64, Roz67]. **Friendship** [Cas15, Gla00, BB05]. **Frisch** [KED+60]. **Fritzsch** [RS11a, Mil12]. **Fröhliche** [Hen11, Rec09, Rec10]. **Froissart** [DeG74]. **frontier** [Hei36e, Sch07]. **Frontiers** [Ano66, Hei74b, Cas74]. **frühen** [Sch05, Sch07]. **frustrated** [KGNS10, sMDN+11]. **Fuchs** [Sei90a]. **Fueki** [RFS+91]. **Fueled** [BSMB99]. **fuerzas** [SHD91]. **Fues** [Hei36b]. **Full** [FMV07]. **fullerene** [NAZ02]. **Fullerenen** [RDP+95]. **Function** [KA71, LB72, Mor71, Mor72b, Ni04b, Unr72, Fed04, KSSA78, Mor72c, SL70, SF71]. **functional** [CL05]. **functionals** [Per88]. **functions** [Dun86, Mor72a, Pea76]. **Fundament** [URWB95]. **Fundamental** [BW04, Hei52d, Hei75s, Hei76d, Hei84h, Hei84-56, Hei04, JZ11, Str62a, BSP+70, BN08, Hei53o, Hei75i, Hei77d, SHD91, GZ95, Hei36f, Hei49e]. **fundamentales** [SHD91]. **Fundamentals** [Som36, Hei34f, Hei34g, Hei34h, Hei35f, Hei36h, Hei43t, Hei44d, Hei45b, Hei47i, Hei49l, Hei59i, Hei73j, Hei36a]. **Fundamente** [HVTK+97]. **funeral** [Hei86b]. **fünfzigsten** [Hei35d]. **Funktionen** [SPS+64]. **Furman** [AO44]. **Furry** [Ano34]. **Fürsorge** [Hei49g]. **Fusionsexperiment** [RDP+95]. **Future** [Hei79c, Hei79b, URWB95, Hei85b]. **Fysik** [Ano44a].

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DDH89c, DDH89b, DDH89f, DDH89g, DRF90b, DHM$^+$59, DH61a, DB71, Dür76, Dür05, Dür62, Dür80, Eck12a, Eic50, Eic53, EB82, Ess71, EH38, EH84, Fie80, Fis41, Fis02, FS06, Fis10a, Fis12a, Fis15, For22, FS93, Fra05, Fue61, Ful15, GZ92b, GZ92a, GHH02, GP92a, Got02b, Gou47f, Gou47a, Gou47b, Gou47c, Gou49, Haa34, Hah40, Hah43, Hah45, Hah10, HB82a, Har43, HJ43, Har37a, Har37b, Har81, Hau22, Hei22a, Hei22b, Hei22c, Hei23a, Hei23b, Hei24d, Hei24a, Hei24c, Hei24b, Hei24e, Hei25b, Hei25a, Hei25d, Hei25c, HJ26, Hei26a, Hei26b, Hei26c, Hei26f, Hei26e, Hei26d, Hei27e, Hei27b, Hei27a].

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[Hei27f, Hei27c, Hei27d, Hei28b, Hei28d, Hei28e, Hei29a, Hei29b, HP29, Hei30a, Hei30f, Hei30h, Hei30g, Hei30d, HP30, Hei30e, Hei31b, Hei31c, Hei31a, Hei31j, Hei31i, Hei31e, Hei31f, Hei31k, Hei31h, Hei31g, Hei31d, Hei31l, Hei32f, Hei32g, Hei32h, Hei32i, Hei32j, Hei32d, Hei32e, Hei33b, HPE$^+$33, Hei33d, Hei33c, Hei34b, Hei34a, Hei34e, Hei34d, HSD34a, Hei34i, Hei34f, Hei34g, Hei34h, Hei34j, HvLM$^+$35, Hei35b, Hei35a, HE35, Hei35d, Hei35c, Hei35f, Hei36i, Hei36b, Hei36a, HJFS36, HSBR36, Hei36c, Hei36d, Hei36e, Hei36f, Hei36g, Hei36j, Hei36h, Hei37b, Hei37c, Hei37d, Hei37e, Hei37f, Hei38d, Hei38c, Hei38b, Hei38f, Hei38e, Hei38g, Hei38a, Hei38h, Hei38i, Hei39a].

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[HGT$^+$39, Hei39b, Hei39d, Hei39f, Hei39e, Hei39j, Hei39i, Hei39h, Hei40a, Hei41a, Hei41b, Hei41g, Hei41c, Hei41d, Hei41f, Hei41e, Hei42c, Hei42b, Hei42d, Hei42a, HBF$^+$42, Hei42e, Hei43u, Hei43e, Hei43g, HSBB43, Hei43m, Hei43j, Hei43f, Hei43h, Hei43i, Hei43k, Hei43l, Hei43o, Hei43b, Hei43p, Hei43n, Hei43d, Hei43c, Hei43a, Hei43s, Hei43r, Hei43t, Hei44a, Hei44b, Hei44c, Hei44d, Hei45a, Hei45b, Hei46d, HF46, Hei46f, Hei46b, Hei46c, Hei46e, Hei47a, HvL47, HKvL47, Hei47e, Hei47b, Hei47f, Hei47j, Hei47k, Hei47l, Hei47c, Hei47i, Hei48a, Hei48e, Hei48d, Hei48b, Hei48c, Hei48g, HvW48, HW48, Hei48n, Hei48k, Hei48l, Hei49a, Hei49b, Hei49c, Hei49k, Hei49d, Hei49f, Hei49e].

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[Hei49g, Hei49h, HW49, Hei49l, Hei50e, Hei50a, HHKG50, Hei50b, Hei50c, Hei50d, Hei50j, Hei50g, Hei50h, Hei51c, Hei51e, Hei51m, Hei51a, Hei51f, Hei51i, Hei51d, Hei51j, Hei51k, Hei51l, Hei52a, Hei52b, Hei52c, Hei52r, Hei52f, Hei52g, Hei52p, Hei52s, Hei53a, Hei53t, Hei53e, Hei53f, Hei53k, Hei53l, Hei53g, HR53, Hei53b, Hei53c, Hei53o, Hei53y, Hei53h, Hei53q, Hei53s, Hei53u, Hei53x, Hei53v, Hei53w, Hei54c, Hei54b, Hei54e, Hei54f, Hei55a, Hei55c, Hei55b, HKM55, Hei56a, Hei56g, Hei56e, Hei56d, Hei56h, Hei56m, Hei56i, Hei56c, Hei56n, Hei56j, Hei56f, Hei56k, Hei57e, Hei57b, Hei57c, Hei57d, Hei58d, Hei58a, Hei58k, Hei58l, Hei58m, Hei58e, Hei58g, Hei58h, Hei58i, Hei58t].

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[Hei58f, Hei59b, Hei59a, Hei59d, Hei59e, Hei59g, Hei59h, Hei59i, Hei59k, Hei60b, Hei60c, Hei60f, Hei60a, Hei60i, Hei60j, Hei61c, Hei61a, Hei61b, Hei61d, Hei61e, Hei61h, Hei61i, Hei62a, Hei62f, Hei62h, Hei62i, Hei62b, Hei62m, Hei63a, Hei63c, Hei63d, Hei63e, HB63, Hei63b, Hei63k, Hei63l, Hei64a, Hei64b, Hei64e, Hei64f, Hei64g, Hei64c, Hei64h, Hei65a, Hei65p, Hei65c, Hei65f,

Hei65b, Hei65d, HG65, Hei65j, Hei65m, Hei65e, Hei65o, Hei65q, Hei66b, Hei66a, Hei66c, Hei66h, Hei66i, Hei67a, Hei67d, Hei67f, Hei67e, Hei67c, Hei67g, Hei67h, Hei67i, Hei67b, Hei67p, Hei67n, Hei67o, Hei68a, Hei68b, Hei68d, Hei68c, Hei68f, Hei68j, Hei68k, Hei69b, Hei69a, Hei69k, Hei69e, Hei69f].
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[Hei69g, Hei69l, Hei69o, Hei69d, Hei69m, Hei69n, Hei70b, Hei70a, Hei70f, Hei70c, Hei70h, Hei70d, Hei71a, Hei71c, Hei71d, Hei71b, Hei71h, HBD71, Hei71l, Hei71m, Hei71n, HB$^+$72, Hei72f, Hei72b, Hei72c, Hei72g, Hei72j, Hei72i, HnH72, Hei72k, Hei72l, Hei72m, Hei72e, Hei72n, Hei73a, Hei73f, Hei73e, Hei73g, Hei73c, Hei73i, Hei73j, Hei74c, Hei74d, Hei74q, Hei75f, Hei75e, Hei75m, Hei75r, Hei75q, Hei75p, Hei75t, Hei76e, Hei76g, Hei76h, Hei77e, Hei77c, Hei77h, Hei77i, Hei78, Hei79c, Hei79b, Hei79d, Hei79g, Hei79e, Hei80, Hei81b, Hei81c, Hei82b, Hei82c, Hei83a, Hei83e, Hei84d, Hei84-48, Hei84g, Hei84e, Hei84f, Hei84-63, Hei84n, Hei84l, Hei84k, Hei84o, Hei84p, Hei84r, Hei84-54].
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[HH84, Hei84s, Hei84m, HW84b, HMW$^+$84, Hei84w, Hei84-52, Hei84-60, Hei84-59, Hei84-49, HL84, Hei84-47, Hei84-42, Hei84i, Hei84-62, Hei84-41, Hei84-50, HW84a, Hei84-44, Hei84-45, Hei85b, Hei85d, Hei85c, Hei86b, Hei86c, Hei86o, Hei86n, Hei86g, Hei86h, Hei86j, Hei86i, Hei86a, Hei86e, Hei86l, Hei86m, Hei87a, Hei87c, Hei87b, Hei88, Hei89b, Hei89a, Hei89d, Hei89e, Hei89c, Hei89h, Hei89i, HBB$^+$89, Hei89f, Hei89g, Hei89-36, Hei89k, Hei89l, Hei89q, HGW$^+$89a, Hei89s, Hei89u, HGW89b, HR$^+$89, HBF$^+$89a, Hei89w, Hei89m, Hei89x, Hei89y, Hei89z, Hei89-28, Hei89-27, Hei89-30, Hei89-32, Hei89-29, Hei89j, Hei89-33, Hei89n, Hei89-34, HBF$^+$89b, HBF$^+$89c, Hei89-38, Hei89-39, Hei89-37, Hei89-40, Hei90a, Hei90b, Hei91a, Hei93c, Hei93f].
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[Hei93a, Hei96a, Hei00c, Hei01a, Hei01b, Hei02, HR02b, HHH03, Hei03, Hei05b, Hei06, Hei07c, Hei08b, Hei10b, Hei10a, HHvB10, HHHH11, Hei11, Hen00, Hen07, Her76a, Her76c, HvMW79, Her84, Her01, Him90, Hof92, Hof93, HW04, Hof05, HW07, HW11, HW12b, Hof23, Hol93b, Hor66, Hou30, Hou41, Irv67b, Irv67a, Jac01, Joh13, Jun56, Jun64, Jun72, Jun90, Kan02, Kan03, Kar05a, Kar05c, Kar05b, KP07, KHBF43, Kle17, KRW05, KH19, KH47, KH25, Kra87, KF01, LH24, LBBH69, Lan72, Läs13, LL77, LH93, LMOS15, LRD$^+$91, Luc82, Lur95, Mai07, Maj33, MPB$^+$24, MWL$^+$15, Men36, Mey76, MS15, Mor47, Mül40, Nag16, NW95, OS03, Ols63, Ost11, Otr79, PHvMW01, PvM93, Paw02a, Paw02b, Paw06, Pei93a, Pfe69, Pfe77, PFH20, Pop16b].
German [Pop16a, Pop18, PdK23, Pow93a, Pow93b, Pow94, Pow00, Rad83, Rad91, Rec91a, Rec91b, Rec91c, Rec91d, Rec92, Rec96, Rec01, Rec02a, RW02, Rec02b, RKW05, Rec10, Ree19, RH02, Rin61, Rin69, Rin90, Ros98, Rür79, Sal01, San02, Sch01, Sch82, Sch11a, Sch96a, Sch05, Sch07, Sch26, Sch27, Sch30, Sch11b, Sim07, Sim12, Sim79, Smo93, SH22b, SH22a, Som36, Sta36, Sta37, SM41, Tel30, Tel61, Tel71, Tel93, Tel01, Wal89a, Wal89b, Wal90a, Wal90b, Wal93, Wal95, Wal03, Wal05, Wal07, Wal17, Wal20a, Wig96g, vWL93, vBL96b, vL47, vL48a, vL48b, vM02, vM05a, vS14, vW35,

vW40, vW41a, vW1 , vW41b, vW48, vW88, vW91, vW02, vWR04, Hay90]. **Germans** [HB+72, Klo93, NW95, Pei71]. **Germany** [Cas05, Hei57d, Hei65d, NBH97, Bør12, Bro92, Brü64, Car99b, Cas93b, Gim90, Gla00, Gou46a, Gou46b, Gou47a, Gou48b, Gou48a, GWY05a, GWY05b, Hau22, Hei39d, Hei40b, Hei46d, Hei47g, Hei47h, Hei51e, Hei53k, Hei53g, HR53, Hei56b, Hei56j, Hei67c, Hei84-35, Hei86a, Hei93a, Irv67b, Irv67c, Joh13, KP07, Log96, Mac93, Sch13, Sch07, TW10, Wei46, Wei99, WHF+96, vW57, Lib68]. **Gershenfeld** [ARK+99]. **Gerthsen** [EHR+96]. **Gesammelte** [BDR84a, BDR84b, BDR85a, BDR84c, BDR84d, BDR85b, BDR86, BDR89a, BDR89b, BDR93, Kra86a, TW91, BDR84e, Bro85, Bro86, Mat87, Sch91b]. **Gesamtausgabe** [Hei68j]. **Gesamtdeutsche** [DRF90a, DRF90b]. **Geschehen** [Hei61e]. **Geschichte** [AH93, All06, Hau22, Hei33d, Hei71b, Hei75g, Kar05c, LMOS15, MGG+95, Rür79, vBL96a, vBL96b]. **Gesellschaft** [BDR89b, DRF90a, DRF90b, Hei30a, Hei31g, Hei41b, Hei75m, HW07, Mai07, RDP+95, Rür79, URWB95, vBL96a, vBL96b, Tel71]. **Gesellschaft/Bergakademie** [DRF90a, DRF90b]. **Gesellschaft/Die** [RDP+95]. **Gesichtspunkte** [EH38, EH84, Hei72l]. **Gesprach** [Hei67g, Hei67h, Hei67i, Hei65f]. **Gesprache** [Hei75e, Hei77c, Ess71, Hei69d, Hei72e, Hei73c, Hei81b, Hei81c, Hei83e, Hei84-50, Hei85c, Hei86e, Hei87b, Hei88, Hei96a, Hei01a, Hei06, Sch01, Cas02a, HHvB10]. **Gestalt** [HvW48]. **Gestalten** [SPS+64]. **Gestalten/Kromphardt** [SPS+64]. **Get** [Ano29, Ano33, Tut05, Kar07]. **Gets** [Ano33, Wit12]. **Getting** [Lan02, Mon09]. **Geĭzenberga** [Ano77a, Smo92a, Smo92c]. **Gewaltlosigkeit** [Hei69g]. **gewidmet** [Hei43r, Rec02a]. **gewinnung** [Hei89n]. **gewusst** [Got02b]. **Geyer** [EHR+96]. **ghost** [Hei56o]. **Giannetto** [Pol00]. **Gierer** [WMG+92]. **Gifford** [Cal14, Edd07, Edd12]. **Gift** [MP01]. **Gilmore** [HVTK+97]. **Gino** [Wal08]. **Giuseppe** [Pol00, Cir88]. **Given** [Hei75s]. **Giving** [Wei93]. **Glanz** [EHR+96]. **glass** [BPP11]. **Gleichgewicht** [Hei89j]. **Gleichungen** [Hei53y]. **Glückwunschschreiben** [Hei86g]. **God** [Bab02, Hei67g, MB11a]. **Gödel** [FW07, Hol18, Mor97]. **Goemans** [LN06]. **Goes** [Ano33]. **Goethe** [Hei41d, Hei52o, Hei67b, Hei74h]. **Goethes** [Hei67b]. **Goethe'sche** [Hei41d]. **Goetzberger** [MGG+95]. **Gogh** [Bab02]. **Going** [Sta09a]. **Goldman** [Sei90a]. **Gombás** [Hei50a]. **good** [Hei67e]. **Google** [Dje07]. **Goose** [Ano36]. **Goose-Steps** [Ano36]. **Göppingen** [Hei89b, Hei89b]. **Gordon** [Sei90a, Kra84, Mie80]. **got** [Ols63]. **Gott** [Hei67g]. **Göttingen** [Hei89q, Got83, Hei53l, Hei77e, Hei83c, Hei89f, KF01, OS03, OS03]. **Göttinger** [GRE+01, Hei89f, Hei89q, KF01]. **Gottow** [Hei43e]. **Gottower** [Hei43e, Hei89e, Hei89e]. **Goudsmit** [Hei27b, Lak96, Kae47, LRD+91, Rec91d, Wal90a, vC16, vCH18]. **GPU** [BPP11]. **Grabe** [Hei86m]. **graded** [GH10, MP92]. **graduations** [HR02b, RW02]. **granite** [Hei77f]. **Grant** [Ano33, Sei90a]. **graphite** [BBF+45, HBB+89]. **Grau** [LSK+76]. **grave** [Hei86l, Hei86m]. **Gray** [SPS+64]. **Great**

[Bro97, Cas97, Cre10, Gre10, Hal09, Hei75b, Bre97, Büh98b, Hei65d, Kae48b, KW87, Lig05, Ols63, Pic08, AFG90, Bes04, vW02, vWR04]. **Greatest** [Acz01, Hür22, Kra86b]. **Greek** [Nic90]. **Green** [KA71, LB72, Unr72]. **Green's** [Ni04b]. **Greeting** [Hei73a]. **Greetings** [Hei75r]. **Gregg** [Wal08]. **Gregor** [Hei43h, Hei43h]. **Greif** [Kra87]. **Grenze** [Hei36e]. **Grenzen** [Hei38f, Hei84-48, Hei71l, Hei73g, Hei76g, Hei77h, Hei84-62, Hei89-29]. **Grenzgänger** [Sch05, Sch07]. **Greub** [SPS+64]. **Griffin** [Kra86b, Kra87]. **Griffiths** [Yeh70]. **grinding** [Hei22b, Hei84w]. **Grönblom** [Hei43f]. **Grönbloms** [Hei43f]. **Gross** [HW84b]. **Großbeschleunigern** [Hei72l]. **Grosse** [ARK+99, Hei72a, vRFS+00, Rec01, Bes04, Erm89, vW02, vWR04]. **Größen** [Hei43j, Hei65d, URWB95, vW48]. **Größen"** [Hei43m, Hei44a]. **großer** [vRFS+00]. **Großforschung** [MGG+95]. **Grosßversuche** [Hei44c]. **Großversuche** [Hei89-33, HW84b, HW48]. **Ground** [BT78, Bra97, Bec02, Wre75]. **Ground-State** [Bra97]. **Group** [Far01, FMV07, He04, HP93, Kor05, Ni04a, Ni04b, Pau93, Wan01, BM93, BK88, CZ81, CGST91, Dun86, ES95, Flo97, GBLW86, GV85, GV86, Gel84, Gre80, KS92, LN06, Low97, RRK+64, Sud06, Tor91, WB03, Hei28b, Hei31b, Ras78, Hei27b]. **Group-theoretic** [Ras78]. **Groups** [EHR+96, Wey31b, Wey50, DDI03, JZ11, KSSA78, Pac88, Scu75, Sem03]. **Groups/Schmidt** [EHR+96]. **Groups/Schmidt-Rohr** [EHR+96]. **Groves** [Sei90a, Erm89, Gol95]. **Grummt** [RFS+91]. **Grünbaum** [CL83]. **Grund** [Ano35b, Deh36, Haa34, vW1]. **Grundfragen** [Hei58g]. **Grundkurs** [MGG+95]. **Grundlag** [Hei35e]. **Grundlage** [GRE+01]. **Grundlagen** [Ano35a, Ben35, Clu37, Deh37, DS43, Hei34i, Hei34f, Hei34g, Hei34h, Hei35f, Hei36h, Hei42e, Hei43t, Hei44d, Hei45b, Hei47i, Hei49l, Hei59i, Hei73j, Hei89n, KED+60, Mos42, Som36, Str62a, Str62c, Wil36a]. **Grundlagenforschung** [Hei56n]. **Grundlegende** [Hei59b]. **Grundphänomene** [Hei39b]. **Grundprinzipien** [Hei27f]. **Grundprobleme** [Hei49e]. **Gründung** [Hei30a, RDP+95]. **Gruppentheorie** [Hei28b, Hei31b, Wey31a]. **Grußwort** [Hei75r]. **Gu** [HVTK+97]. **guests** [GP92c]. **Guide** [Rod19, Sei90a]. **Guido** [Sta11a]. **Gun** [Dah22]. **Gustav** [Cas79a]. **Gutachten** [Cas03, Hei01b, HR02b, RW02, Hei02]. **Gutachten-** [Cas03, Hei01b, HR02b, RW02]. **guter** [Hei67e]. **Gymnasium** [Hei89b, Hei89b].

H [Adl03, Ano94, Bro85, Bro86, Cru23, Fra94, Jac11a, Jac11b, Kra86a, Mat87, Sch91b, TW91, Wit83, JZ11]. **H-type** [JZ11]. **H.** [Hof11]. **H.-P** [Bro85, Bro86, Kra86a, Mat87, Sch91b, TW91]. **Haas** [Deh36, HEB+80]. **Habilitationen** [Cas03, Hei01b, HR02b, RW02]. **Habilitations** [HR02b, RW02]. **Hafemeister** [Sei90a]. **Hahn** [GRE+01, Hei54e, Hei68f, Hei69f, KF01, MGG+95, Sim07, Wal03, vS14, BMP87, BM94, Hei54e, Hei68e, Hei68f, Hei69f, KF01, OS03, She83a, She83b, Sim07, Sim12, Wal03, Wal06, vS14]. **Hahn-Meitner-Instituts** [MGG+95]. **Hahn-Meitner-Instituts/Fölsing** [MGG+95]. **Haigerloch**

[Läs13, Fec90, FTF01, GORS09, Läs13, Mac85]. **Halbleiter** [WMG+92]. **Halbleiterbauelemente** [OSWR86]. **Halbleiterbauelemente/Stitch** [OSWR86]. **Halbleitermarkt** [RDP+95].
Halbleitermarkt/Röntgenspiegel [RDP+95]. **halbtechnischen** [Hei42b, Hei89g]. **half** [GV86]. **half-space** [GV86]. **Halfway** [Bar07]. **Hall** [BC95, BL08, FS93, Hah45, Hei64b, Hof92, Hof93, Hof23, Mar94, OS03, WR92, Wal93, BDJ57, Ber92, Ber93, Ber96, Cas17, Cas22, Dah22, FS93, Fra93b, Fra93c, Fra93a, GP92c, Hah45, Hof92, Hof93, Hof22, Hol22, Klo93, Luc07, McC24, Rec91a, Rec91b, WR92, Wal93]. **Hall-Protokolle** [Wal93]. **Halle** [HH14, Wit83]. **halting** [Lap91]. **Hamiltonian** [Fri98, CA76, Fal64, Fri97, Gid71, KBWJ96, TR09]. **Hamiltonians** [KSGB+83, SMMM87]. **Handbook** [FBD+22, OSWR86, SPS+64].
Handbook/Brandt [SPS+64]. **handing** [Hei89b]. **handing-over** [Hei89b]. **handling** [Döp42]. **Hane** [Sei90a]. **Hanle** [Hei25a]. **Hans** [Cas79a, Hei75q, BR64, Cas79a, Hei75q]. **Happer** [BSP+70]. **Happy** [Rec10]. **Harald** [Mil12, RS11a]. **hard** [JD06]. **hard-core** [JD06]. **hardback** [Hen11, Sta11b]. **Hardbound** [Wat01]. **Hardy** [Adl03]. **hare** [Hei39c, Hei84j]. **Harish** [LJ08]. **Harish-Chandra** [LJ08]. **Harmonic** [BSP+70, GV86, New35, BDH88, CGM+71, Dun86, Lun84]. **harmonics** [Gel84, Gre80]. **Harmonie** [Hei67h, Hei67i]. **Harmony** [Hei67h, Hei67i]. **Harnack** [Hei31g]. **Harnack-Haus** [Hei31g]. **Harper** [Ano68, Bun71]. **Harriet** [CS94]. **Harteck** [Erm89]. **Harvard** [Par06, Tur06]. **harvest** [Bra09]. **Haus** [Hei31g, RDP+95, URWB95]. **Havlin** [MGG+95]. **Hawking** [Pic08]. **Hayes** [Bor53]. **hbk** [Lan02]. **Head** [Mon09]. **headed** [Gou47a]. **Health** [KED+60]. **Heat** [Ni04b, Hei24c, KH47]. **Heavy** [Bør12, Dah99, Hei52n, DDH40b, DDH89e, Hei38a, Hei84i, vW41b, Wat01]. **Hechingen** [Läs13, Läs13]. **Hedwig** [Bro72, BB69, BB05]. **Heelan** [Bab02, HH75]. **Heelans** [Hei75h]. **Heft** [FS93]. **hegemony** [Cus94, Lev95]. **Heidegger** [Sei90b]. **Heidelberg** [Büh95, Eis00, Hen86, Hen11, Kra86a, Rec03]. **Heimendahl** [SPS+64]. **Heinrich** [URWB95, BHN98, Hen98]. **Heinrich-Hertz-Institut** [URWB95]. **Heirs** [Tau94]. **Heisenberg** [Adl03, Ano35a, Ano35b, Ano51, Ano84a, Ano06, Ano08, ARK+99, Bar04, Bed09, Ben30, Ben34, Ben35, Bes04, BMG+50, BCL+69, BDR84a, BDR84b, BDR85a, BDR84c, BDR84d, BDR85b, BDR86, BDR89a, BDR89b, BDR93, B+61, Bor58, Bor72, Bor53, Bro72, Bro85, Bro86, Bro95, BSP+70, Büh95, Büh98a, Bun71, BW04, Car97, Cas75, Cas74, Cas93c, Cas95, Cas03, Cas05, Cir88, CL94, Clu37, Cru23, Dah02a, DPL96, Deh36, Deh37, DS43, DRF90a, DRF90b, Dür05, Eck12a, Eck12b, EHR+96, Eic50, Eis00, Fay07, Fel54, Fer07, Fis02, Fis10b, Fis12b, Fis15, For09, Fri98, Fue61, Ful15, GZ92b, GZ92a, GRE+01, Got02b, Got04, Gou76, Haa34, HEB+80, Hah06, Hah10, Han62, HVTK+97, Hen86, Hen11, Her76a, Her76c, HMSH78, HvMW79, Her84, Her01, Hof11, Hor66, Huf71]. **Heisenberg** [Jac01, Jac03, Jac11a, Jac11b, Joh59, Jor71, Kan03, Kle17, KW93, KRW05, KED+60, Kra86a, Kra96, Kra07, KF01, LW34, Lak96, Lic16, LSK+76, Lud01,

Mac78b, Mac58, Mar73, MGG$^+$95, Mat86b, Mat86a, Mat87, May87, Mil12, Mil58, Mos42, MP77, Mot85, OSWR86, OS03, Otr79, Par06, Pau31, PHvMW01, PvM93, Paw02a, Paw06, Pol00, Pop18, Pye81, Rec81b, Rec85a, Rec85b, Rec86, RFS$^+$91, Rec91a, Rec91b, Rec92, Rec96, Rec01, RW02, Rec02b, Rec03, RKW05, Rec09, Rec10, Rob82, RDP$^+$95, RDM$^+$12a, SZ74, Sap10, Sch82, Sch05, Sch07, Sch59, Sch02a, Sch26, Sch30, Sch00b, Sch91b, Sei90a, Som36, Sta11a, SCH$^+$78, Str62b, Str62c, SPS$^+$64, Tel93, Tre78, Tur06, URWB95, Wal92, WMG$^+$92, Wei85, Wig67, Wil36a, Wil36b, Wit83].
Heisenberg [vMHW85, vM93, vM96, vM99, vM01, vM05b, vRFS$^+$00, vS14, Aas00, Aas02a, Aas02b, Aas02d, Aas02c, Aas02e, Abd97, Aga02, AMS04, Alt06, AS03, Ano29, Ano33, Ano34, Ano35b, Ano44b, Ano54, Ano61b, Ano68, Ano71, Ano73, Ano75, Ano76, Ano77a, Ano77b, Ano83a, Ano98, Ano99, Ano02a, Ano04a, Ano05, Ano11, Ano12, Ano20, Ano25, Anoxx, Arg09, Ari23, AG88, AFW94, AP22, BT78, BC09, Bac22, Bac52, BT96, BG96, BKBS93, BM93, BK88, Bec02, BDH88, BK04, Bel85, Bel92, BMP87, Bt87, BPP11, Ber95, Ber02, BL03, Ber04, Bes98, Bes04, Bil03, BHX96, Bla86, Ble90, Blo76a, Blo76b, Blo85, BDR84c, BDR84d, BDR84e, BDR85b, BDR86, BDR89b, BRL06, BJLR17, Boh62, Bok04, Bok06, Bok10]. **Heisenberg** [BB96, B$^+$61, Bor70, Bor49, Bal07, Bra97, BM94, BM11, Bre23, Bre97, Bri65b, Bro93, Bro02a, Bro02b, Bro71, Bro73b, Bro77, BM84, BM86, BR87, BR96a, BN08, Bru76, Büh98a, Bun77, BW04, Cam05, Cam06, Cam07a, Cam07b, Cam09, Cap57a, Cap57b, CL05, CBS20, Cap01, CK95, Car76, CS94, Car99b, Car02a, Car02b, Car03, Car10, Cas76, Cas78, Cas79b, CR84, CB84, Cas92a, Cas92b, Cas92c, Cas93c, Cas95, Cas01, Cas02c, Cas02d, Cas09, Cas11, Cas14a, Cas15, CDvW77, Cav14, CZ81, CGST91, Ces18, Cha92, CM02, CK02a, CK02b, Chi01, CRR93, Cla23, Cle09, CA76, Cle06, Cop81, Cor79, Cor71, CP84, Cre10, CG14, Cul05, Cus86, D'A03, Dah02b, DMdA06, DKLN92, DPL94, DM99, DLW08, DC87, DDI03, DMCF06, DeG74, DJR93, Del13].
Heisenberg [DC48, DGH$^+$12, DGS99, DL08, Dir28, Dir64, Dir76, Dör05, DD13, DRB86, Dun86, DB71, Dür76, D$^+$92, Dür05, Dur00, Dys51a, Dys51b, DLS76, Ech96, Eck33, Eck90, Eck92, Eck01, Eic50, El 00, EMGM94, ES95, Eng09, Enz83, Erm89, Ess71, EHUY92, FO94, FO99, Fal64, Fav05, Fed04, Fed18, FR04, FR08, FR13a, Fer99, Fin96, Fis02, Fis15, Fis64, FT94, Flo97, Foo94, Fra94, Fra10, Fri97, Fri13, Fri11, Fue61, Ful15, FMV07, GBLW86, GbK77, Gar91, GV85, GV86, Gel84, GH10, Gem87, GA02, GZ92b, GZ92a, GLSC01, Got02a, Got02b, Gou90, Gou47c, Gre62, Gre63, GKZL96, Gre80, GS12, GWW$^+$09, HN55, Haa34, Hah10, Hah11, Hak02, HR02a, Han79, Har73, He04, Hea77, Hea11, Hee75, Hei54a, Hei72a, Hei35g, Hei36i, Hei36e].
Heisenberg [Hei47f, Hei48m, Hei51k, Hei56c, Hei65f, Hei67h, Hei67i, Hei70j, HBD71, Hei72m, Hei74e, Hei75n, HDW75, Hei79c, Hei80, Hei83a, Hei84a, Hei89t, Hei91a, Hei01b, Hei02, HR02b, Hei04, Hei05b, Hei08a, Hen93, Hen98, Hen00, Hen10, Her69, Her76a, Her76b, Her76c, HvMW79, Her84, Her01, HBB$^+$07, HN99, HK00, Hof02, Hol84, Hol00b, Hol05, HS81, HS83, Hor66, HS70, Ing70, Ing32, Isa82, IM95, Jac01, Jad14, Jam76, JD06, Jau93, Jau29,

Jes98, JLP+02, JZ11, JKS13, JTD+98, Kan02, Kar05b, KBWJ96, KF02, Kas11, KW02, KW03, Kat96, KI64, KSSA78, Kav24, Kem85, KKM+09, Kle54, Kle78, KLV80, KSGB+83, KS92, Kle17, KRW05, Koo89, Kor05, Kra95, Kra93, KF01, KJ06, KF07, KA71, KGNS10, KPS+95, Kva76]. **Heisenberg** [Lac02a, Lac02b, LM87, Lan59, Lan72, Lan02, Lan08, Lap90, Lap91, LB72, LL77, LN06, LBS+04, LL86, LM29, LTG+12, Lin07, Lin08, LFK99, LL82, LH01, LJ08, LWZ10, Loc07, Loe63, LRD+91, LS93a, LS93b, Log99, LD66, Los61, Low97, Luc82, Lud01, Lun84, Lus10, sMDN+11, Maa05, Mac78a, Mac77, Mac86, Mac87, MP92, Man11, Man91, Mar08, Mas04, Mas14, MC97, McC24, MC92, Meh87, Mes04, Mey76, MS15, Mie80, Mie81, ML71, Mil85, MMSV98, Mon09, Mon04, MB11b, Moo93a, Moo93b, Mor71, Mor72a, Mor72b, Mor72c, Mor97, NAZ02, NKD+11, Nar93, Neu99, Ni04a, Ni04b, Nis32, OD03, O'F92, OS07, OS03, Ome75, Ome79, Ore98, Ost11, Otr79, Oza02, Oza03, Pac88, PC14, Pan02, PLS02, Pau34, PHvMW01, PvM93, Paw02a, Paw02b, Paw06, Pei71]. **Heisenberg** [Pei92a, Pei92b, Pei93a, Per88, Per64, Pfe77, Phi92, Plo10, Pol95, Pop18, PL91, PDL92, Pow76, Pow93a, Pow93b, Pow94, Pow00, Pow02, PSZM02, Pug80, Raz11, Rec81a, Rec84, Rec91a, Rec91b, Rec91c, Rec91d, Rec92, Rec93, Rec96, Rec01, RW02, Rec02b, RKW05, Rec10, Ree24, RH02, Rhe91, Rig87, Rob69, Rob80, Roh85, RS94, RW92, Ros98, Ros60, Ros79, Rot93, Roy78, RDM+12b, Rud58, Rus64, SZ73, SHI73, Sal01, SMMM87, San02, San81, Sch01, Sch82, Sch11a, Sch05, Sch07, SAR+09, Sch02b, Sch99, Sch00a, Sch26, Sch66, Sch15, Sch22, Scu75, Sei90b, SK73, Sem03, Ser77, Set11, Shi02, Shi78, Shi83, Shi86, Sil13, ST65, SK09, Sla72, Smo93, Smo92a, Smo92b, Smo92c, Smo92d, Sno49, Sny82, Sor02]. **Heisenberg** [Spi98, Squ67, SL70, Sta11b, Str62a, Sud06, SF71, Swe93, Tan04, Tau94, TW91, Tel76, Tel93, Telxx, Tel01, Tem91, Ter82, Tho80, Tiw14, TR09, Tor91, Tre01, Tri02, TBL02, Tut05, Tya63, Unr72, VBN95a, VBN95b, Van41, VZ09, VL97, Vya99, Wag81, Wal90a, Wal20b, Wal22, Wal83, Wan98, Wan01, War90, Wei98, Wei93, Wel92, WF19, WB03, Wig76, Wil84, Wil99, Wis98, Wit12, Wol14, Wre75, Wüt16, Yaf00, Yam02a, Yam02b, Yam02c, Yan13b, Yeh70, Zak96, Zan02a, Zan02b, Zel87, ZG96, Žup65, d'E92, dB58, dB82, dB90, dG14, dR99, dSL02, dlP80, vD15, vBN95c, vBW88, vM02, vM05a, vS14, vWvdW77, vW02, vWR04, Ano94, CD94, Dre92, Gar91, Gre10, Lau07, Mat86a, Mot85, Paw08, Roh85, Wei85, Ber93]. **Heisenberg** [Bro97, Car99a, Cas91, Cas93a, Cas97, Cas02a, Hol93a, Lal15, LH93, Pei93b, RS11b, Swe93, Wal99, Wil94]. **Heisenberg-** [Pug80]. **Heisenberg-brev** [Sch15]. **Heisenberg-Limited** [LBS+04, BM11, HBB+07]. **Heisenberg-Limits** [Sch11a]. **Heisenberg-Mikroskop** [URWB95]. **Heisenberg-Programm** [Ano84a, Ano84b, Ano83a].
Heisenberg-Programm/1-Megabit-Speicherchip [Ano84a].
Heisenberg-type [HR02a]. **Heisenberg/Braun** [LSK+76].
Heisenberg/Die [Eic50]. **Heisenberg/DVT** [DRF90a, DRF90b].
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N [Cru23, Dje07, Hei31f, Wal08]. **nabrosku** [Hei62n]. **nach** [Ano84a, GHH02, HVTK+97, Hei25b, Hei53b, Hei56g, KH47, URWB95, vRFS+00, vW41a]. **Nachlass** [Ano76]. **Nachruf** [HKvL47, Hei47e, Hei51c, Hei60f, Hei71h]. **Nacht** [vS14]. **Nachtrag** [Fis02, Hei41e, Hei89-34, Hei89x]. **Nachweis** [DDH42a, DDH89a]. **Nagging** [Paw02a]. **nagljadnom** [Geĭ77b]. **naissance** [BD92]. **Name** [RMRP09, Hei67e, Hei67e]. **Named** [Ano33]. **namely** [D'A03]. **Namensverleihung** [Hei89b]. **naming** [Hei89b]. **Nano** [RDP+95]. **Nano-Kugellager** [RDP+95]. **Nano-Kugellager/Bislang** [RDP+95]. **Nanocrystals** [ARK+99]. **Nanocrystals/Gershenfeld** [ARK+99]. **Nanolithography** [JTD+98]. **nanoscale** [Cle09]. **narrative** [Com56]. **Nasledie** [Smo92c]. **Nation** [Ano33]. **National** [Hay90, Wal89a, Har37a, Har37b, Har81, Hen96, HH11, HW04, RW94, Wal89b, Wal92]. **Nationalsozialismus** [Mai07]. **Natur** [EHR+96, Hei69e, WMG+92, Hei79e]. **Natur/Cassidy** [WMG+92]. **Natural** [Hei66g, Sil13, Som36, Str62a, Hei35f, Hei36h, Hei43t, Hei44d, Hei45b, Hei47i, Hei49l, Hei52e, Hei55b, Hei56f, Hei57c, Hei58e, Hei59a, Hei59i, Hei60a, Hei62b, Hei63b, HG65, Hei66a, Hei67b, Hei68c, Hei70c, Hei71d, HnH72, Hei73j, Hei74d, Hei76e, Hei79d, Sta36, Hei72i, Ros79]. **Naturbeschreibung** [HVTK+97]. **Naturbeschreibung/Demtröder** [HVTK+97]. **Naturbild** [Hei53c, Hei55b, Hei56f, Hei57c, Hei58e, Hei59a, Hei60a, Hei62b, Hei63b, HG65, Hei66a, Hei67b, Hei68c, Hei70c, HnH72, Hei74d, Hei76e, Hei79d]. **Nature** [ARK+99, Cal14, Edd28, Edd78, Edd07, Edd12, Edd13, Gin75, Hei58v, Hei60g, Hei65l, Hei76a, Hei77a, Pag82, Plo10, RDP+95, Edd00, Geĭ77c, Hei33d, Hei37e, Hei52j, Hei53c, Hei58o, Hei58r, Hei63g, Hei69e, Hei70i, Hei74h, Hei76f, Hei79e, Hei84-58, Meh73, Han62, Joh59, Sch59]. **Naturerklärung** [Hei33d]. **Naturforscher** [Hei72a, Wit83, Sta36]. **Naturphilosophie** [Hei37e]. **Naturwissenschaft** [AH93, Ben35, Clu37, DS43, Hei34i, Hei34f, Hei34g, Hei34h, Hei82c, Hei84-63, KED+60, LSK+76, Mos42, Str62a, Str62c, AH93, Hei35f, Hei36h, Hei43t, Hei44d, Hei45b, Hei47i, Hei48e, Hei48d, Hei48f, Hei49h, Hei49l, Hei59i, Hei61c, Hei61e, Hei65p, Hei71c, Hei72j, Hei72i, Hei73j, Smo93, Tre01]. **Naturwissenschaft/Heisenberg** [KED+60]. **Naturwissenschaft/Lecture** [LSK+76]. **Naturwissenschaften** [Ano35a, Deh37, Som36, Wil36a, Hei71d]. **Naturwissenschaftler** [vRFS+00]. **Naturwissenschaftler/Weizsäcker** [vRFS+00]. **naturwissenschaftliche** [BDR85b, Hei67b, Hei73f]. **naturwissenschaftlichen** [Hei42d]. **nauki** [Inf33]. **Nazi**

[Car99a, Hen00, Lan02, Lib68, Log99, Neu99, Wal99, FR08, Bro93, Bro92, Cho02, DR92, FR08, Gla00, GP92b, Irv67b, Joh13, Mac85, Mac93, Mai07, MP01, O'F92, Ros98, Wal95, WHF+96, Zan02a, Klo96]. **Nazi-related** [Mai07]. **Nazis** [Bro09, Cha92, Hei48i, Kae48a]. **Nazism** [Ols63]. **názory** [Hei69i]. **NBC** [Hei89-31]. **Nearest** [Fal64]. **Nearest-Neighbor** [Fal64]. **nebula** [HvW48]. **need** [Hei48l, Hei68b]. **needs** [Pop16c]. **Negative** [Sch13]. **Neighbor** [Fal64, Dob77]. **nel** [Arg09]. **Nelinejnye** [Geĭ68]. **nelle** [Cas14b]. **nemeckogo** [DF96]. **Neon** [Hei27b]. **Neue** [DRF90a, DRF90b, URWB95, Wit83, Rec02b, Ben30, Ben34, Ben35, Clu37]. **Neuen** [Hei56e, Hei84e, Ano02a, BFH+42a, Hei61a, Hei72b, HBF+89b, Hei89-40, SPS+64]. **Neuer** [Ano84a, RDP+95, Wal93]. **Neuere** [Hou30]. **Neues** [RDP+95]. **Neufassung** [Dür80]. **Neujahrsansprache** [Hei89y]. **Neumann** [Wig96h, Bac22, GW96, Wig96c, WG96]. **Neuser** [EHR+96]. **Neutrinienne** [Hei84-61, Hei53p]. **Neutrino** [GLR14, Hei53p]. **Neutrinooszillationen** [URWB95]. **Neutrinoquelle** [URWB95]. **Neutrinoquelle/Atomare** [URWB95]. **Neutron** [Bro71, BM84, GR09, Rog13, DK78, DDH42a, DDH42c, Hei37c, DDH42b, DDH89a, DDH89c, DDH89b]. **Neutron-Induced** [GR09]. **Neutronen** [DDH40a, DDH40b, DDH89e, DDH89d, DDH89b, Hei52p, Rec85a, DDH42b, Fis41]. **Neutronenstrahlung** [Hei37c]. **Neutronenvermehrung** [DDH42a, DDH42c, DDH42b, DDH89a, DDH89c, DDH89b]. **Neutronics** [GORS09]. **Neutrons** [DDH42b, DDH89b, DDH40a, DDH40b, DDH89e, DDH89d, Fis41, Hei52p]. **Never** [Pei93b, Hei48g]. **Nevill** [Mac78b]. **Newcomb** [CS94]. **News** [Stu85, Yam02a, DRF90b, Hei89-31]. **Newton** [Bes04, Mil12, Büh98b, Fri11, Hei41d, Hei52o]. **Newtonian** [BKBS93]. **Newtons** [Büh98b]. **Newton'sche** [Hei41d]. **Nicholas** [Hei86n]. **Nichols** [Sei90a]. **nicht** [Hei67a, Hei67g, Pop16a]. **Nichtlaminare** [Hei22b, Hei84w]. **Nichtlineare** [MGG+95]. **nichtlinearen** [Hei61b, Hei63d, Hei84k, Hei84r]. **nichtlinearer** [AH57, Hei53y, HKM55]. **nichtrenormierbarer** [Hei54f]. **Nicolaus** [Gin75]. **Niels** [Adl03, Bor58, Hei86g, Hei10a, Kra07, Lan08, Lau07, Aas02b, Aas02e, BR64, Dör05, Fav05, FK85, Hei35d, Hei63h, Hei10a, Meh87, Pai91, PRW55, RRK+64, Roz67, Sch11c, Yam02a, vD15]. **niemals** [Hei48g]. **niemieckich** [Kar06]. **Nietzsche** [Sei90b]. **night** [vS14]. **Nikolaus** [Hei86n]. **NLB** [Jor78]. **NMR** [EHR+96]. **No** [Sch94, Yam02a, Zan02a, DPL96, Hei67g, Hol93b]. **Nobel** [HSD34a, Rec10, ABH+55, ABH+87, Ano33, Ano20, Gre05, Hei32c, HSD34b, Hei65f, LW34, Läs13]. **Nobelpreis** [Ano51, Hen11, Rec09, Rec10]. **Nobelpreises** [HSD34a, Wil36b]. **Nobelpreisträger** [ABH+55, ABH+87, Hei65f, Läs13]. **noble** [BDR84j, Hei23a]. **noble-gas-like** [Hei23a]. **noch** [Hei51e, NW95, URWB95]. **Non** [Boh62, Hei55f, Hei57f, Hei68g, Hei84q, Hei84r, Hei84-36, Hei84-34, MWL+11, Hei58w, Hei62g, Hei84-29, Hei84w]. **Non-Classical** [Boh62]. **Non-laminar** [Hei84w]. **Non-Linear**

[Hei55f, Hei84q, Hei84r, Hei84-36, Hei84-34, Hei68g, Hei58w, Hei62g, Hei84-29]. **Non-Proliferation** [MWL+11]. **Nonintegrability** [DKLN92]. **nonintuitive** [Hei46c]. **nonisospectral** [LTG+12]. **Nonlaminar** [Hei22b]. **Nonlinear** [BDR84i, DH66, DH84a, Hei60h, Hei63d, Hei65k, Hei67l, Hei84-30, Hei84-32, Wan01, AH57, Bes98, Car71, DHYY65, Hei53y, HKM55, Hei61b, Hei84k, KJ06, Mie80, Mie81, Geĭ68, Hei75c]. **Nonlocality** [Kas11, OW10, Sei05]. **nonrelativistic** [BP75]. **nonrenormalizable** [Hei54f]. **nonseparable** [KtL79]. **Nonviolence** [Hei69g]. **North** [Adl03, BCEP94]. **Northwestern** [Gou47a]. **Norton** [Jor78]. **Norwegian** [Aas02e, Bør12]. **Note** [Hei48m, May87, Ree19, RDM+12a, Van41, Hei35g, SH22b, Hei31f]. **Notes** [LSK+76, RS11a, Geĭ36]. **notion** [Hei48e, Hei48d, Hei74i]. **Notiz** [Hei31f]. **Notwendigkeit** [Hei48l]. **Nov** [Hei89-36, Hei89x]. **Nova** [Wit83]. **November** [Hei31g, Hei89-36, Hei89x, Wal20b]. **Nowe** [Inf33]. **Noyau** [Hei84b, Pau34, Hei34c]. **noyaux** [CCJ+34]. **Nr** [Wit83]. **nucléaire** [Kar07, Lur95]. **Nuclear** [ARK+99, BB36, BBF+57a, Bor53, Bør12, Bri65a, BM86, BR96b, BSP+70, CS94, Cas02b, Dah99, Eck90, For22, Gam30, Gou47c, GORS09, GWY05a, HB82b, HVTK+97, Hay90, Hei50i, Hei53m, Hei53n, Hei54b, Hei54d, Hei66j, Hei68e, Hei69h, Hei76b, Hei81a, Hei84-46, Hei86a, Kar05c, KH19, Lib68, MGG+95, MWL+11, MWL+15, MS15, Mil85, Mla98, NBDG40, Rad83, Rad91, Sei90a, She83a, She83b, Sim00, Sim10, Sim12, TV23, Wat01, WMG+92, Wig96m, Ada72, ABH+55, ABH+87, Bad95, Bet91, BDR86, Bro92, CHW91, Eck33, El 00, GWY05b, HB82a, Hau22, Hei32i, Hei32j, Hei43l, Hei52k, Hei53k, Hei53g, Hei56a, Hei56d, Hei56j, Hei57b, Hei68b, Hei89l, Hei89p, Hei89-32, Hof92, Hof23, Hou41, Irv67b, Jun64, Jun72, Jun90, Kae48b, Kar07, KP07, Kra87, Lur95, Maj33]. **nuclear** [Wal89a, Wal93, WC84, vW35, Ano54, Fel54, Hei89d, Hei89c, Wal05, Wal07, vW41b, Hei54a, Kle54, Sei90a]. **Nuclear-Fission** [Sim10, Sim12]. **Nuclei** [BB36, CR12, CCJ+34, Hei35c, Hei38c, Hei38b, Hei65g, Hei65h]. **Nucleon** [GRE+01]. **Nucleon/Sube** [GRE+01]. **nucleons** [Hei56l]. **Nucleus** [FR13b, Hei75d, BDR84f, BDR84h, BR96a, Geĭ36, Hei32f, Hei32g, Hei33b, Hei34c, Hei35a, Hei36d, Hei37b, Hei37d, Hei39c, Hei43n, Hei47b, HW49, Hei51j, Hei51k, Hei84j, Hei84f, Hei84b, Hei84l, Hou30, Rec02a]. **nuklearen** [Rad83, Rad91]. **Numbering** [Hei72a]. **Numbers** [DH62, vW48]. **Numerical** [Bec02, Bra97, MC92]. **Nuovo** [Pol00]. **Nur** [RFS+91]. **Nutzung** [HB82a].

O [BBF+45, DDH41a, DDH42a, DDH89a, DDH89c, DDH89f, Hei43f, HBB+89, Bro95, Hei96c, BBF+45, Cav14, DDH41a, DDH42a, DDH42c, DDH89a, DDH89c, DDH89f, Geĭ77a, Geĭ77b, Hei42b, HBB+89, Hei89g]. **O-38-metal** [DDH42c, DDH89c]. **O-38-Metallschichtensystem** [DDH89c]. **Obituary** [Tel76, Wig76, HKvL47, Hei47e, Hei51c, Hei60f, Hei71h]. **Object** [Hei76b, KH19, JU82]. **Objectivity** [Car03]. **Objects** [FW20, MSUU80]. **Objekten** [GRE+01]. **Observability** [Lac02a, Lac02b, Wol14]. **Observable** [Hei43j, Hei44a, Hei43m, Hei62k]. **Observations** [Ber01, Yeh70]. **Obsession**

[Mil10]. **Obtain** [Ano34]. **Obtaining** [CA76, Har73, LB72]. **obtenir** [Kar07]. **occasion** [Hei58k, Hei69b, Hei89b, Hei89a, PRW55, Sch82]. **occupation** [Ano44a]. **Occupied** [Sch11c]. **occurring** [Hei38h]. **October** [CCJ+34, DDH89f, Far01, Hei35d, HBF+89a, IEE06]. **octobre** [CCJ+34]. **O'Dell** [BSP+70]. **off** [D'A03]. **öffentlichen** [Hei51d, Hei53h]. **Öffentlichkeit** [DRF90b, DRF90a]. **Office** [Kra86a, Kra07, Lan08, Sei90a]. **official** [Hei89b]. **offiziellen** [Hei89b]. **Oguchi** [LD66]. **ohne** [Hei57b]. **Okt** [DDH89f, HBF+89a]. **Oktober** [Hei35d]. **old** [Hei38g, Hei49a, Hei61a]. **Olson** [HEB+80]. **oltre** [Hei84-55, Hei00a, Hei08c]. **om** [Ano44a]. **Omnès** [EHR+96]. **once** [Ols63, Hei64c]. **once-great** [Ols63]. **onde** [dB58]. **ondulatoire** [dB82]. **One** [AK15, Fis64, Kae31, Sta09a, BT78, DMdA06, Fri97, Fri98, Hol93b, Isa82, PDL92, ZG96]. **One-Dimensional** [Fis64, BT78, DMdA06, Isa82, PDL92, ZG96]. **ones** [SK09]. **Online** [CF98]. **ont** [VB15]. **op** [vC16]. **Open** [Bok04, Büh98a, CL05, Hof92, Oor09]. **Opening** [Hei75s, Sch00b, SM41, Geĭ58]. **Operacija** [DF96]. **Operation** [FS93, Hof92, d'E92, DF96, Fra93b, Fra93c, Fra93a, Hof92, Hof93, Hof23, NW95, Fra93a]. **Operator** [Sch99, Bes98, Fri97, Fri98, OS07, Sny82]. **Operators** [Kor05, CZ81, Dys51a, Dys51b, KF07]. **ÖPG** [Ano84b]. **Opinion** [Gol92, Hei10b, Hei65m, Hei89-32]. **Opinions** [BDR89b]. **Oppenheimer** [Ano34, Hol84]. **Opposition** [Hei47a, Loc07, Sch11b]. **Optical** [Ano04a, ARK+99, BSP+70, CR12, JTD+98, RFS+91, BH24a, BH63b, Hei24c]. **Optics** [Aga02, KED+60, PSZM02]. **Optics/Mandl** [KED+60]. **Optik** [BMG+50, DRF90a, DRF90b, vRFS+00]. **optische** [BH24a, BH63b, Hei24c]. **Optoelektronische** [OSWR86]. **Oracles** [Sei90a]. **orbits** [BH63a]. **Order** [Cap01, EHR+96, Gou90, HK19, Mer38, DRB86, GWW+09, Hei84-52, LTG+12, Ano25, BDR84c, Cap57b, Cru23, Hei89z]. **Order/Kafka** [EHR+96]. **Ordnung** [BDR84c, Hei84-52, Hei89z]. **Organisation** [BDR89b, HR53, Hei54b]. **Organization** [BDR89b, Hei54b, HR53]. **Origin** [ARK+99, BR96b, Hei77g, Hei49k, Hei75f, Rad83, Rad91]. **Original** [Ano34, BDR84a, BDR89a, BDR93, Bro86, Mat87, Paw06]. **Originalarbeiten** [BDR84a, Bro86, BDR89a, BDR93, Mat87]. **Originaltonaufnahmen** [Paw06]. **Origins** [Meh87]. **Orthner** [Hei39b]. **orthogonal** [DLW08, VZ09]. **orthosymplectic** [BDH88]. **Oscillator** [New35, BDH88, CGM+71, SAR+09]. **oscillators** [Car71, Tru75]. **osnovnye** [Geĭ58]. **Ostmark** [Hei41b]. **Otázky** [Hei69i]. **Other** [Hen00, Hei89o, Hof23, Hol86, MGG+95, vW41b]. **Otkrytie** [Geĭ58]. **Otto** [GRE+01, Hei69f, KPMN20, KF01, Sim07, Hei54e, Hei68e, Hei68f, Hei69f, KF01, She83a, She83b, Sim07, Sim12, Wal03, Wal06]. **Our** [Gou48a, Hei43o, Hei61e, Hei65b, Hei69k, Hei69l]. **outlook** [Hei52j]. **ovation** [Hei74g]. **over-relaxation** [BPP11]. **Overview** [Cas02c, Cas02d, Hak02, Hei84d, Hei53t, Wal08]. **Oxford** [FBD+22]. **oxides** [Man91].

P [Ano54, Ano68, Ben34, Bro85, Bro86, Bro97, Cas97, Cru23, Gre10, Hei30b,

Hei36c, Hei50a, Kra86a, Mat87, Sch91b, TW91, Wig96j, Wil36b]. **P.** [Hei30c, Hei36c, Lan02]. **Paarläufe** [FS06]. **Pacifist** [Sal19]. **package** [Flo97]. **Packets** [Hen93, Lan59]. **pact** [Cor03]. **page** [FS93]. **Paged** [BB96]. **PageRank** [Dje07]. **pages** [Bed09, Cas05, Cas11, Eis00, Hei31g, LH93, Neu99, Par06, Wat01]. **Pair** [Mor71, Mor72b, FS06, Mor72c]. **Palermo** [Pol00]. **Pamjati** [Geĭ70a]. **Papenfuß** [Jac03]. **Paper** [Hen98, AMS04, Cas78, Hei24a, Pau34]. **paperback** [Fis02, Kra07]. **Papers** [Aas02c, Ano75, BDR84e, CS79, HDW75, Kra86a, Kra07, Mat86b, Mat87, Sch58, Sch03, Sei90a, BDR84a, BDR84b, CDvW75, CDvW79, Eck70, FB01, Haw11, Wig96m, Yan13a, BDR89a, BDR93, Bro86]. **Paradigms** [Bok06]. **Paradoxes** [Joh13, Hei51i]. **Paradoxien** [Hei51i]. **Paraffin** [BFH$^+$42b, Hei41a, Hei89i, HBF$^+$89a, HBF$^+$89b, HBF$^+$89c, BFH$^+$42a, HBF$^+$42, BFH$^+$42a, BFH$^+$42b, HBF$^+$42]. **Parents** [Kan03, Cas05, HHH03]. **Pariser** [KF02]. **Parlamentarischen** [HR$^+$89]. **Parliamentary** [HR$^+$89]. **Parr** [KF02]. **Part** [BDR84a, BDR85a, BDR89a, BDR93, Bro86, Car97, Ess71, Gar91, Mat87, vM96, vM99, vM01, vM05b, BDR85b, Eis00, Hei69d, Hei72e, Hei73c, Hei81b, Hei81c, Hei83e, Hei84-50, Hei85c, Hei86e, Hei87b, Hei88, Hei96c, Hei96a, Hei01a, Hei06, Wei46, Wei99, Geĭ90, Wig96m]. **parte** [Hei96c]. **Partial** [Hei32a]. **participation** [Hei65d]. **Particle** [Ari23, ARK$^+$99, Ble90, BH83a, BH83b, HVTK$^+$97, Hei74l, RFS$^+$91, SPS$^+$64, BH82, Cam06, DH65b, Fri97, Fri98, Gau14, Hei50a, Hei76h, Wei98]. **Particles** [DH66, DH84a, DH84b, Hei29c, Hei39f, Hei43c, Hei55g, Hei56c, Hei57g, Hei58a, Hei58m, Hei58n, Hei60h, Hei62f, Hei62k, Hei63i, Hei63j, Hei64a, Hei65i, Hei65n, Hei65e, Hei68d, Hei68g, Hei75c, Hei76a, Hei77a, Hei84-48, Hei84t, Hei84-57, Hei84v, Hei84z, Hei84-59, Hei84-31, Hei84-33, Hei84-34, Hei84-32, Hei84-38, Hei84-39, Hei84-43, Hei93c, HP93, Pau41, Pau93, Rec81a, BDR84g, BDR85b, DHM$^+$59, DH61b, DH61a, DH65a, Fis10a, Fis12a, Geĭ56, Geĭ77c, Hei38c, Hei38b, Hei38h, Hei43m, Hei43j, Hei44a, Hei50j, Hei51m, Hei51h, Hei51i, Hei53o, Hei54c, Hei55c, Hei56k, Hei59b, Hei61b, HD61, Hei61h, Hei61i, Hei62a, Hei63c, Hei63g, Hei65b, Hei66d, Hei67d, Hei71c, Hei74p, Hei76f, Hei84d, Hei84g, Hei84k, Hei84o]. **particles** [Hei84m, Hei84-58, Hei84-27, Hei89o, HN99, JD06, KLV80, Hei93b, Wig67, Hei93d]. **Partisans** [Sal19]. **partition** [KSSA78, SF71]. **partnership** [BR87]. **Paschen** [HKvL47, HKvL47]. **Pascual** [Sch05, Sch07, Bel85, Sch05]. **Pasi** [Hei77f]. **Päsler** [HMSH78]. **passage** [Hei36d, Hei37b, Hei84l, BDR84f, Hei38c, Hei38b]. **passing** [Ano77a, Ano77b]. **Passion** [Jon08]. **Passions** [Ber91, CS94]. **passive** [Hei47a]. **Past** [Hei85b]. **Path** [Eck92, Gar91, Mas14, STCW94, Hau22]. **Paths** [HPE$^+$33, Hei43i]. **pathways** [Inf33]. **Patrick** [Hei75h, Bab02]. **patterns** [Tem91]. **Paul** [Car99a, Kra87, OSWR86, Wig96a, BR87, Erm89, Hen00, KPMN20, Kra87, KW87, Log99, Neu99, Wig96k]. **Pauli** [ARK$^+$99, Bro95, Car97, CP84, Eis00, GRE$^+$01, HEB$^+$80, Hei31k, Hei59j, Hen86, HvMW79, Kra96, MGG$^+$95, Mie81, OSWR86, Pye81, Rec86,

vMHW85, vM93, vM96, vM99, vM01, vM05a, vM05b, BC09, FW07, Hei56o, Hei59k, Hei61g, Mas04, Mil10, Nel72, Ser77, dR99, vM05a].
Pauli-Jung-Dialog [MGG+95]. **Paulis** [Hei59k]. **Paulischen** [Hei31k]. **pbk** [Lan08]. **Peace** [Sal19, Sei90a, Hei70j, Hei89d, Hei89c, Rec02a]. **Peaceful** [HB82b, Sal19, Hei53k]. **Peacock** [ARK+99]. **Peculiarities** [PdK23]. **Peierls** [Hei63f]. **Pekka** [And89]. **Penetrating** [Hei43c, Hei38d, Hei41c, Hei84n]. **people** [Hei89o, Wei46, Wei99]. **peoples** [Hei46e]. **perception** [Klo96]. **performance** [Bro09, Wil99]. **period** [HHH03, Kan03]. **periphery** [Hei69d, Hei72e, Hei73c, Hei81b, Hei81c, Hei83e, Hei84-50, Hei85c, Hei86e, Hei87b, Hei88, Hei96a, Hei01a, Hei06]. **Perlmutter** [BSP+70]. **permutation** [KSSA78]. **Persico** [Hei36a]. **Personal** [Ber01, Jun58, Sei90a, Bet91, Com56, Jun82, Dür76]. **personalities** [BBH+62]. **Persönliches** [Dür76]. **Persönlichkeiten** [BBH+62]. **Perspective** [Bru80, Cas00, For22, Jam74b, TW10, Bet91]. **perspectives** [ET07, Hei59e, SW05, Mac58]. **perspektiver** [Boh64]. **Perturbation** [Liu72, CGM+71, Car71]. **peste** [Hei77f]. **Peter** [And89, Sei90a]. **Phänomenologische** [HMSH78]. **phänomenologischen** [Hei66c]. **Pharmazeuten** [HEB+80]. **Phase** [Dah02b, DLS76, AS03, BH23b, Dah02a, DRB86, HBB+07, Sch96b]. **Phasenbeziehungen** [BH23b]. **phenomena** [Hei26d, Hei39b, SME77]. **phenomenological** [Arg09, Geĭ67, Hei66c]. **Philadelphia** [Wat01]. **Philipp** [Sta36]. **Phillips** [CS94]. **Philosoph** [GZ92b, GZ92a, Mey76, Otr79]. **Philosophen** [Rec02a]. **Philosopher** [BHN98, GA02, Cam09, GZ92b, GZ92a, Mey76, Otr79, Rec02a, Bok10, Sta11b, Fra10]. **Philosophic** [Hei52k, Bor53]. **Philosophical** [Ano54, BDR85a, Hei53b, Hei79f, DB71, Geĭ58, Hei58g, Hei58h, Hei58i, Hei58u, Hei59k, Hei60e, Hei61g, HBD71, Hei74j, Hei74k, Hei89v, Mil90, BDR85b, BDR86, Hei70h, Hei84-59]. **Philosophie** [Ano06, BMG+50, Hei59e, HH14, KED+60, LSK+76, SCH+78, Str62b, BD92, Hei58t, Hei59d, Hei65j, Hei72k, Hei78, Hei79g, Hei84-60, Hei87c, Hei90a, Hei90b, Hei00c, Hei03, Hei07c, Hei10a, Hei11, Hor66, Bar04]. **Philosophie/Bonhoeffer** [BMG+50]. **Philosophie/Frisch** [KED+60]. **philosophische** [DB71, Hei59k, HBD71, Hei70h, Hei84-59]. **philosophischen** [Hei58g, Hei58h, Hei58i]. **Philosophy** [Alt06, Bab02, Bru80, Cam05, CL83, CW85, CF98, Geĭ90, Han62, Hei58t, Hei11, Jam74b, Lac02b, Mac58, Nic90, Ros60, Rud58, SS16, Shi83, Shi86, UM92, Wüt16, dR99, Ano66, Ano68, BD92, Cas75, ET07, Geĭ70b, GHW09, Hei37e, Hei52e, Hei58s, Hei59d, Hei59c, Hei59e, Hei62l, Hei65j, Hei72k, Hei78, Hei79g, Hei82a, Hei84-60, Hei87c, Hei89-35, Hei90a, Hei90b, Hei96c, Hei97, Hei00c, Hei00b, Hei03, Hei07c, Hei07b, Hei10a, Hor66, Lac02a, Pai91, Boh62]. **Philosphers** [Acz01]. **Philpott** [HVTK+97]. **Photobiology** [Ore98]. **Photoeffekt** [EHR+96]. **Photoeffekt/Kleint** [EHR+96]. **Photographic** [Hei30a]. **photographische** [Hei30a]. **Photon** [Eps71, SME77]. **Photonenemission** [URWB95]. **Photonenemission/Schnellere** [URWB95]. **Photonik** [URWB95]. **photos** [HHHH11]. **Photovoltaik**

[MGG+95]. **Photovoltaik/Lindner** [MGG+95]. **Phys**
[BMG+50, Fri98, Got04, May87, RDM+12a, Sch02a]. **Phys.** [DPL96].
Physical
[Cal14, CS94, CH84, Edd28, Edd78, Edd07, Edd12, Edd13, GL23, Hal09, Har60, Hei30i, HW04, Hof05, HW07, HW12b, LSK+76, Ome75, Oza03, Pop16c, DB71, Edd00, Hei30d, HPE+33, Hei33d, Hei41b, Hei43i, Hei50f, Hei58f, HBD71, Hei84-49, Hei08b, Mil90, Cas79a, Hei41b, Hei57a, Hei72l, Wal04].
Physicist
[Ano29, BHN98, Bok10, Cho02, Fra10, GZ92b, Han62, Hei60g, Hei65l, Joh59, Sch59, Sta11b, Ano20, Ber91, Cam09, GZ92a, Gre05, Hei58r, Hei70i, Hof92, KW87, Meh73, Otr79, Rec02a, Sal01, vL47, vL48a, Mey76, Ber91, CS94].
Physicists [Ano33, BBF+57a, Bro97, Cas97, Dür62, Dür80, Hür22, KH19, PS69, Sal19, TEW02, Wal08, vW02, vWR04, Ada72, Bes04, Bey82, Bre97, Cli65, Dür06, Hen07, Him90, HW12b, Wal93, W+87, WdC02, vS14, HW07].
Physics [Acz01, And89, Ano68, ARK+99, Bar07, Bed09, BB36, BDH70, Ble90, BDR84i, BDR85a, BDR89b, BBSR69, Bør12, BH83a, BH83b, BM86, BSP+70, CL83, Cor71, Cus86, DGH+12, Dir76, Fli32, FW20, Geĭ68, Gil09, Gla00, Gou46b, Gou47a, HVTK+97, Hei32c, HSD34a, Hei41a, Hei43g, Hei53l, Hei53m, Hei53n, Hei54b, Hei56c, Hei58d, Hei58s, Hei58v, Hei59c, HBSA61, Hei62l, Hei65f, Hei69h, Hei70a, Hei70e, Hei71i, Hei71j, Hei74l, Hei75a, Hei76d, Hei82a, Hei84h, Hei84-55, Hei89i, Hei93a, Hei95, Hei96b, Hei00a, Hei00b, Hei07b, Hei08c, Hen96, HH11, Hol84, Jor78, Kle17, KED+60, LSK+76, Meh73, Mil85, Mla98, Pag82, Pan02, RFS+91, Ros60, Sap10, Sch86, Sei90b, She83a, She83b, Sta11a, SM41, SPS+64, TEW02, TW10]. **Physics**
[Wal89b, Wal92, Wal17, Wat01, vRFS+00, Bal14, BJN01, BDH+89, Bey77, BDR86, B+61, Bor49, BB05, Bra09, BH82, Büh98b, BW04, Cas09, Con62, ET07, Fer99, FF91, Ful15, Gam85, Geĭ67, GHW09, Haw11, Hei31h, Hei31d, Hei32d, Hei35b, Hei36i, Hei36f, Hei37e, Hei38e, Hei39b, Hei39d, Hei40b, Hei41d, Hei43k, Hei49e, Hei51f, Hei52a, Hei52d, Hei52e, Hei52l, Hei52o, Hei53e, Hei53c, Hei53o, Hei55b, Hei56i, Hei56n, Hei56f, Hei56p, Hei57c, Hei58c, Hei58o, Hei58p, Hei58e, Hei58h, Hei58i, Hei58u, Hei59b, Hei59a, HSBA60, Hei60a, Hei60e, Hei60i, Hei61f, Hei62a, Hei62b, Hei63b, Hei63k, Hei65a, HG65, Hei66a, Hei66c, Hei67l, Hei68c, Hei69c, Hei69d, Hei70c, Hei71a, HnH72, Hei72e, Hei73e, Hei73c].
physics [Hei74f, Hei74d, Hei74j, Hei75i, Hei75k, Hei76e, Hei77d, Hei79d, Hei79f, Hei81b, Hei81c, Hei83d, Hei83e, Hei84-54, Hei84-56, Hei84-50, Hei85c, Hei86e, Hei87b, Hei88, Hei89v, HBS96, Hei96a, Hei01a, Hei04, Hei06, Hei10a, Kae48b, Kem85, KHFA67, Meh75, Men36, Pai91, PRW55, Rec92, Rec02b, Rig87, Str11, Wal91, Wal08, WP85, WH07, Wit12, Hei04, Alt06, Ano44a, BDR84c, BDR84d, BDR85b, BDR89b, Bor58, Bun71, Cas75, CCJ+34, Fie80, Geĭ90, Han62, Hei43n, Hei47b, HW49, Hei58t, Hei59d, Hei59e, Hei65j, Hei71b, Hei72k, Hei75s, Hei78, Hei84-60, Hei97, Hei00c, Hei07c, Hei11, LW34, Mac58, Rec96, Sch07, Sch11b, Wal05, Wal07, Ano54, Wig96m, DT18, Ess71, Fel54, Hei54a, Hei32a, Kle54, Wal08, Boh62]. **Physics**
[Hei72a, Huf71, Rud58, Sei90a]. **physics/Bigelow** [HVTK+97].

Physics/Churchman [KED+60]. **Physics/Fraser** [vRFS+00]. **Physics/Grosse** [ARK+99]. **Physics/Hüfner** [RFS+91]. **Physics/Kaiser** [BSP+70]. **Physics/Klatt** [BSP+70]. **Physics/Marion** [LSK+76]. **Physics/Peacock** [ARK+99]. **Physics/Schroeder** [vRFS+00]. **Physics/Sharman** [SPS+64]. **Physik** [Ano51, Ano06, BMG+50, BDR85a, BDR84c, BDR84d, BDR85b, BDR89b, B+61, Büh98b, DRF90a, DRF90b, EHR+96, GRE+01, HEB+80, HVTK+97, Hei35b, Hei36i, Hei39b, Hei41a, Hei43g, Hei43n, Hei47b, HW49, Hei53e, Hei53l, Hei56c, Hei59b, Hei62a, Hei62j, Hei71b, Hei84-54, Hei89i, Hei10a, HH14, KED+60, MGG+95, RFS+91, Rec96, Rec02b, SM41, SCH+78, Str62b, SPS+64, Tre78, vRFS+00, Fie80, Hei31h, Hei31d, Hei32d, Hei36f, Hei37e, Hei38e, Hei41d, Hei53c, Hei53o, Hei55b, Hei56f, Hei57c, Hei58e, Hei58t, Hei59a, Hei59d, Hei59e, Hei60a, Hei60i, Hei62b, Hei63b, Hei65f, HG65, Hei65j, Hei66a, Hei66c, Hei68c, Hei70a, Hei70c, Hei71a, HnH72, Hei72k, Hei73e, Hei74d, Hei76e, Hei78, Hei79d, Hei84-60, Hei93a]. **Physik** [Hei00c, Hei07c, Hei11, Kle17, Men36, Rec81b, Rec92, Sch07, Sch11b, Wal05, Wal07]. **Physik-affären** [Sch11b]. **Physik-Lehrbuch** [HEB+80]. **Physik/Brüche** [SPS+64]. **Physik/Greub** [SPS+64]. **Physik/Hermann** [SCH+78]. **Physik/Kassel** [EHR+96]. **Physik/Kudo** [RFS+91]. **Physik/Vilenkin/Shellard** [MGG+95]. **Physikalische** [BSP+70, Cas79a, DB71, HW07, HBD71, Hei84-49, Hei41b, Hei72l]. **Physikalischen** [Ano84a, DRF90a, DRF90b, RDP+95, Ben30, Hei30d, HPE+33, Hei33d, Hei41b, Hei43i, Hei58f, Hei08b, Pau31]. **physikalisches** [HVTK+97]. **Physikdaten** [SCH+78]. **Physikdaten/Behrens** [SCH+78]. **Physikdaten/Sexl** [SCH+78]. **Physiker** [Bes04, Bey82, Dür62, Dür80, GZ92b, GZ92a, Him90, Rec02a, URWB95, vRFS+00, vS14, vW02, vWR04, HW07, Lor15, Mey76, vL47, vL48a]. **Physikerstreit** [Sal01]. **Physikertagung** [SPS+64]. **Physik“** [Hei43k]. **physique** [CCJ+34, Rhe91]. **physiques** [Hei57a, Mil58]. **picture** [Fri97, Fri98, Nar93, Sny82, Kas11]. **Pictures** [Dir64, Per64, ST65, dG14, Her76c, Her84, Her01, Tel93]. **Pierre** [Mar73]. **Pile** [HW48]. **pilot** [Hei42b, Hei89g]. **Pinzette** [DRF90a, DRF90b]. **Pioneer** [CS94, Jac01]. **Pionier** [Jac01]. **Piper** [Bun71]. **places** [Hei89o]. **Planck** [Adl03, Fis10a, Fis12a, Hei31g, HPE+33, Hei35b, Hei38g, Hei43i, Hei43p, Hei43q, Hei47e, Hei53l, Hei58l, Hei62j, HMW+84, Hei86i, Hei89a, Rec81b, Tre01, vBL96a, vBL96b, Cas75, CG14, Fis10a, Fis12a, Hei31g, Hei38g, Hei45a, Hei47d, Hei47e, Hei49b, Hei58l, Hei58g, Hei58h, Hei58i, Hei58u, Hei60e, Hei74k, Hei86i, Hei89a, Rhe91]. **Planck-Feier** [Hei89a]. **Planck-Institut** [Hei43p, HMW+84]. **Plancks** [Hei49b]. **Plancksche** [Hei45a, Hei58g, Hei58h, Hei58i]. **Plane** [Hei57d]. **Plänen** [Hei56d]. **planka** [Geĭ58]. **plans** [Hei56d, Hei57d, Kra87]. **plant** [Hei42b, Hei56d, Hei89g]. **Plaschko** [MGG+95]. **plasma** [Hei63k]. **Plasmaphysik** [RFS+91, Hei63k]. **Plasmarohren** [Ano84a]. **Plasmazustand** [RDP+95]. **Plato** [Fer99, Hei53o]. **Platone** [Fer99]. **Platons** [Hei53o]. **Play**

[Aas00, Cas22, Fra05, MB11a]. **Plays** [Ros00]. **Plenarsaal** [Hei53q]. **plenipotentiaries** [Mai07]. **Plenum** [Klo96]. **plight** [Hei50d]. **plunder** [Gim90]. **Pluralism** [Bok08]. **Plus** [EHR+96]. **Pobedy** [Smo92a]. **Poenaru** [HVTK+97]. **Poet** [Ano33]. **Poincaré** [Adl03]. **Point** [New35]. **Poland** [Got04, Ber04]. **Polarisation** [Hei25b, Hei25a]. **polarization** [Hei25b, Hei25a]. **Polarized** [OSWR86]. **Pole** [Ano04b]. **poles** [Ter82]. **Policies** [Sei90a, CHW91, WC84]. **Policy** [Car02a, Car02b, Eck90, BBH+62, Hei72l]. **política** [Hei96c]. **Political** [BDR89b, Hei73b, Sei90a, Hei61e, Hei72d, Hei80, Hei83a, Hei91a, Sch05, Sch07]. **Politics** [Hab69, Jor78, SW05, Sim12, TW10, Bey77, BDR89b, BB05, Car99b, Fav05, Hei69g, Hei74m, Hei96c, Sch07, Wal08, Sei90a]. **Politik** [BDR89b, Sch07, Fav05, BBH+62, Hei69g]. **Politische** [BDR89b, Hei80, Hei83a, Hei91a, Sch05, Sch07]. **politischen** [Hei61e]. **polity** [Pai91]. **Pollaczek** [Koo89]. **polya** [Hei62n]. **polymer** [Fed04]. **Polymers** [EHR+96, HVTK+97]. **Polymers/Ambegaokar** [HVTK+97]. **Polymers/Ruder** [EHR+96]. **Polynomial** [FT94]. **polynomials** [BMP87, BM94, DLW08, Koo89, Per88, VZ09]. **polynuclear** [OD03]. **Pomerans** [Han62, Sch59, Huf71, Joh59]. **Pople** [KF02]. **popular** [BDR85a, BDR85b, BDR86]. **Porazhenija** [Smo92a]. **Poröses** [RDP+95]. **Portrait** [CW85]. **Portraits** [LMOS15, Far01]. **Porträts** [LMOS15]. **Portrays** [Aas00]. **Portuguese** [Hei96c]. **Position** [Oza02, SAR+09]. **Positive** [Wan01, Pac88]. **Positivism** [Hei91c, Spi98, Lan72, Hei31g]. **Positivismo** [Spi98]. **Positivismus** [Lan72, Hei31g]. **Positron** [HE06, Hei34b, Hei34a, HE35, Hei52s, Hei52s]. **Positrons** [Hei34a, HE35]. **Positrons“** [Hei34b]. **possibilities** [Hei53g, Hei56j, Mon04, Hei89w]. **possibility** [Hei39e, Hei40a, Hei41f, Hei69k, Hei69l, Hei89h, Hei89-36, Hei89m, Hei89x, Hei89-40, vW40]. **possible** [Hei85d, Per39]. **Post** [Hei56b]. **postdoctoral** [Hei01b]. **postgraduate** [Lic16]. **Postscript** [Pau93]. **postwar** [Gim90]. **potency** [Car76]. **potential** [NRS71, TR09]. **Pour** [Cap57a, Cap57b, Kar07]. **Power** [Gou47c, Hay90, MWL+15, Sch91a, Sei90a, Bet91, Wal89a]. **Powers** [Cas93a, Hol93a, LH93, Pei93b, Swe93, Wil94, Ber93, Kra93]. **Pp** [Bro72, Cas93a, Hen86, Hen11, Klo96, Kra07, Sta11b, Bok10, Bun71, Cru23, Fra94, Hay90, Hei53b, Hol93a, Jor78, Kra86a, Lan02, Lan08, Lib68, Log00, Pol00, Tur06, Wil94, Ano94]. **Practice** [Sta09a, Sta11a, Set10]. **Prag** [Hei89t]. **Pragmatism** [Spi98]. **Pragmatismo** [Spi98]. **Praktiker** [EHR+96]. **Praktiker/Mathcad** [EHR+96]. **praktische** [vW1]. **Präp** [DDH41a, DDH41b, DDH89f, DDH89g]. **Präparat** [DDH40a, DDH89d, Hah40, Hei41a, Hei89i]. **Präsidenten** [Ano71, Hei50g, Hei53q]. **precision** [Wit12]. **predicting** [OD03]. **Prediction** [GLR14]. **Preface** [Hei93b, Hei52r]. **Preis** [Ano35a, Ano84b, Ben30, Ben34, Ben35, Clu37, Deh36, Deh37, DS43, DRF90a, DRF90b, Mos42, Wil36a, Wil36b, Wit83]. **Preis/Verwundbarkeit**

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Wig96m, Hei73f, HvMW79, PHvMW01, PvM93, Rec86]. **scientifica** [Lud01]. **Scientist** [CS94, GA02, Gou47a, Gou49, Hei70e, Jor78, LH93, Ols63, Car03, Eck01, KF01, Pei92b, Sta36, Tel71, CS94]. **Scientists** [Acz01, Ano12, Bad95, Ber92, Ber01, BS47, Bey77, Bur62, DG99, Gol95, Gou47b, Hol93b, Jun58, Kae31, MP01, Sei90a, vL48b, BBF+57b, Cas14b, Cor03, Erm89, Hal09, Hei57e, Hei68a, HW11, Jun56, Jun64, Jun72, Jun82, Jun90, Log96, Luc16, OS98, Str11, Bey82, Jor78]. **scienza** [Pol00]. **scienzato** [GA02]. **scienziati** [Cas14b]. **Scope** [Lic16, Mil12, RS11b]. **scoperta** [Hei60e]. **SCRAPS** [Hei65l]. **Scribbles** [Luc04]. **Search** [Dje07, Sim00, vRFS+00, Kra95, Mes04]. **Sechs** [DS43]. **Second** [Hei53x, Hei93b, Dob77, DRB86, Sim07]. **second-neighbor** [Dob77]. **second-order** [DRB86]. **Secret** [Ber93, Ces18, Hol93a, Kar05c, LH93, Pei93b, Swe93, Wal04, Wil94, Ber96, Cas93a, FB00, Gou48b, Hof92, Kar07, Nag16, Pow93a, Pow93b, Pow94, Pow00]. **secrète** [Kar07]. **section** [Fis41]. **sections** [DK78]. **Sector** [Nel72]. **Security** [MWL+11]. **Seems** [GLR14]. **seen** [RKW05, Roz67]. **Segrè** [Wal08]. **segreti** [Ces18]. **sehr** [Hei36d, Hei37b, Hei38c, Hei38b, Hei84l]. **sei** [Hei67g]. **sein** [Ano02a, vWL93]. **seine** [Eic53, Hei38a, Hei84i, KPMN20, MGG+95]. **seinem** [GHH02, Hei43r, Hei44b, Hei05b, KRW05]. **seiner** [RKW05, RDP+95, SCH+78, Tre78]. **seines** [Sch82]. **Seiten** [Ben30, DS43, Eis00, Hei31g, Wit83]. **Selbstbiographie** [Hei82b]. **Selbstenergie** [Hei30e]. **Selbstreflexionen** [Wal93]. **selbstvergessene** [Fis02]. **Selbstzeugnissen** [Her76c, Her84, Her01]. **Selected** [CS79, Sch58, Sch03, Sei90a, Yan13a, Bor63a, Hei87a]. **Selection** [Hei75b]. **Selections** [CS94]. **Self** [Per88, Gra00, Hei30e, Her76c, Her84, Her01, Wal93]. **self-deception** [Gra00]. **Self-dual** [Per88]. **self-energy** [Hei30e]. **Self-reflections** [Wal93]. **Sellerio** [Pol00]. **Sellevag** [vRFS+00]. **seltsamen** [DH61a, Hei61h, Hei61i]. **Semiclassical** [KtL79, GKZL96]. **Semiconductor** [ARK+99, SPS+64]. **semidirect** [Low97]. **Semiempirical** [OD03]. **semigroups** [WB03]. **Semilinear** [Maa05]. **Seminar** [Hei52f]. **semisimple** [Scu75]. **Sense** [Hei79a, Rov21, Ome79]. **sensitivity** [BM11]. **Separated** [NBDG40]. **separation** [HJ43]. **Sept** [Hei89-33]. **September** [Har43, Meh73, Aas02c, Hei89-33]. **septième** [CCJ+34]. **Serber** [McC24]. **Serie** [Pol00]. **Series** [BDR84a, BDR84b, BDR85a, BDR84c, BDR84d, BDR85b, BDR86, BDR89a, BDR89b, BDR93, Bro86, Kra86a, Mat87, BDR84e]. **Service** [Ces18]. **Serving** [Bal13, Bal14]. **servizi** [Ces18]. **Set** [Ano34]. **Seth** [Sta11a]. **Sets** [RS94]. **settling** [Enz83]. **Seventh** [CCJ+34, Far01]. **Sexl** [SCH+78]. **sfondo** [Hei99, Pol00]. **shadow** [Läs13]. **shape** [HvW48]. **Share** [Ano33]. **Sharman** [SPS+64]. **sharpness** [SH22b]. **Shellard** [MGG+95]. **Shepherd** [Dje07]. **Shepherd-Barr** [Dje07]. **Shield** [Sei90a]. **Shifts** [BSP+70]. **shock** [Hei52g]. **Shockley** [Dje07]. **shook** [Gam85, Haw11]. **Short** [Ano33, Unr72, Hei61h, Hei61i, Hei67p, Hei89u]. **Short-Story** [Ano33]. **Should** [vW57, Got02b, Hei89-40]. **Shower** [DeG74, Hei36g, Hei36j].

Showers [Hei39g, Hei43a, Hei49i, Hei52q, Hei53s, Hei84y, BDR84k, Hei37a, Hei39j, Hei43c]. **showing** [Ano11, NKD+11]. **Shurkin** [Dje07]. **Si** [Hei68h]. **sideband** [SAR+09]. **Sides** [FR13a]. **Significance** [Hei69j, Hei53r]. **Silence** [Ano93b]. **Silizium** [RDP+95]. **similar** [BDR84j]. **similitudes** [GS12]. **Simon** [CS94, Lib68]. **Simple** [Hei84c, AFW94, Hei32b, Yeh70]. **simply** [DDI03]. **simulation** [HN99, sMDN+11]. **Simulations** [HVTK+97]. **Simulations/Poenaru** [HVTK+97]. **since** [Meh75]. **Singh** [Tiw14]. **Single** [Hür22, HJ43]. **singular** [CGM+71]. **singularities** [NRS71]. **Singularity** [DKLN92, Wre75]. **Sir** [Adl03, CS94, Mar94]. **sisteme** [Geĭ67]. **site** [GbK77, KSGB+83]. **Situation** [Hei29c, Hei63i, Hei65n, Hei68g, Hei84-34, Hei84-38, Hei93a, Sim07, Hei84-27]. **Sitzung** [Hei41b]. **Six** [Sei90a]. **Sixty** [FR13b, Mil90]. **Sixty-two** [Mil90]. **size** [Hei53i]. **skæbne** [Jun57]. **Sketch** [CK95, Ano61b]. **Skizze** [Ano61b]. **Skurrile** [Arr06]. **Slept** [Bro97, Cas97, Bre97]. **slit** [Wis98]. **slow** [Fis41]. **Small** [Mac85, HN99]. **Smallest** [Ano43, Fis10a, Fis12a, Hei53o, Hei71c, Kra95]. **Smith** [Sei90a]. **Smoking** [Dah22]. **so-called** [Hei89j]. **sobre** [Hei96c, Spi98]. **Social** [Mer38, Hee95]. **Socialism** [Hay90, Har37a, Har37b, Har81, Hen96, HH11, HW04, RW94, Wal89a, Wal89b, Wal92]. **Socialist** [CS94]. **Society** [BDR89b, GGK02, Hei30a, Hei31g, Hei41b, Hei76c, Rür79, Hei75m, Tel71, Cla23, HW04, Hof05, HW07, HW12b, Mai07, vBL96b]. **Sociology** [UM92]. **soderzhanii** [Geĭ77b]. **Software** [ARK+99, EHR+96, GRE+01, vRFS+00]. **sogenannte** [Hei89j]. **Sokalratic** [BSMB99]. **sole** [Jun57]. **Solid** [EHR+96, RFS+91]. **Solid-State** [EHR+96]. **Solids** [HEB+80]. **Soliton** [HVTK+97]. **solitude** [Wal91]. **soll** [Hei89-40]. **sollte** [Got02b]. **Solution** [Bra97, BN08, LB72, Nel72, Wan01, Bes98, CGM+71, DGS99, Hei50a, LFK99, dB58]. **Solutions** [HK00, Hei22b, Hei84w, IM95, JZ11, KS92, Mie80, Mie81, NRS71, OS07, SMMM87]. **Solvability** [Kor05]. **Solvay** [BV09, CCJ+34, Far01, Meh75, Sta11a, CCJ+34]. **Some** [CZ81, Hei74p, Hei84-43, Ome79, Yeh70, Hei27b, Jes98, Ols63, CL05]. **Sommer** [Hei51k, Hei85d]. **Sommerfeld** [Hei39a, Hei43g, Hei43r, Hei48a, Hei51c, Lak96, LSK+76, Sta11a, Ano84b, DHYY65, Hei43r, Hei51b, Hei51c, Hei68j, Hei69j, Hei86m, PS69, Set10, vM02]. **Sommerfeld-Ausstellung** [Ano84b]. **Sommerfeld-Gesamtausgabe** [Hei68j]. **Sommerfeld/Hermann** [LSK+76]. **Sommerfelds** [Hei86m]. **Sommerfeldschen** [vM02]. **Sonnen** [Jun56, Jun64, Jun72, Jun90]. **Sonnenenergie** [MGG+95]. **sono** [Arg09]. **sootnoshenij** [Geĭ77a]. **Sorge** [Hei48f]. **sostojanie** [Geĭ56]. **Soul** [Fer07, For09, Wal08, Bal13, Bal14, Lin07, Lin08]. **Sources** [Bar04, KHFA67, vdW67, vdW68, Hen96, HH11]. **sous** [CCJ+34]. **Soviet** [Jor78]. **Sovremennoe** [Geĭ56]. **Space** [Dah02b, Gre62, Hei84u, Hei84-36, AS03, CDvW75, CDvW77, CDvW79, Dah02a, GV86, Hei56m, Hei56o, Hei58w, Hei72h, Mie80, Sch02a, Sch02b, Sch96b, Tem91]. **space-time** [Mie80]. **spacelike** [Mie80]. **spaces** [MMSV98, WB03]. **Spaltningen** [Fav05].

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[KH47]. **spectra** [Hei26e, Hei27b]. **Spectral** [KBWJ96, DMdA06, Hei39a].
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Spherical [Gel84, Gre80]. **spherically** [DPL94, DPL96]. **Spiegel**
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Spiess [EHR+96]. **Spin**
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[LC71]. **Spinor** [DH66, DH84a, Hei60h, Hei63d, Hei65k, Hei68g, Hei75c,
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Sprengstoff [Mül40]. **Springer** [Cru23, Eis00, Hen86, Hen11, Kra86a].
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[Hei10a]. **Spurion** [Hei63j, DH65a]. **Spurion'-Theory** [Hei63j]. **spurned**
[Kae48a]. **Spy** [Sei90a]. **square** [Man91]. **SSC-Physiker** [URWB95].
Stabilität [Hei23b, Hei24c, Hei24e]. **Stability**
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[LB72]. **Two-Time** [Mor71, Mor72b, Mor72c]. **type** [DDI03, HR02a, JZ11].

U [BFH+42a, BBF+45, GRE+01, HBB+89, HBF+89b, vW40, Ano08, ARK+99, Haa34, HEB+80, HVTK+97, MGG+95, OSWR86, Otr79, RFS+91, SCH+78, Wil36b, vRFS+00, vW1 , Bec02, BBF+45, DK78, HBB+89, Tur46a, Tur46b, vW40]. **U-metall** [BFH+42a, HBF+89b]. **U.** [Hei75g]. **u.a** [Car97, Hen86, HvMW79, Kra96, PvM93, Pye81, vMHW85, vM93, vM96, vM99, vM01, vM05b]. **u.a.** [BDR85b, BDR86, BDR89b, Eis00]. **ua.** [PHvMW01]. **überall** [EHR+96]. **Überblick** [Hei58a, Hei84d]. **Überfahrt** [Hei24b]. **Übergabe** [Hei89b]. **Überlegungen** [Hei32e]. **Übermikroskopie** [BMG+50]. **Übermikroskopie/Krieger** [BMG+50]. **übermorgen** [Hei70f]. **Übersetzung** [Hei53b]. **Übersicht** [Hei43o, Hei51l, Hei53t, Hei53u]. **Übersichtsartikel** [BDR84b, BDR84e]. **Übertragung** [Hei47c]. **Übungsaufgaben** [LSK+76]. **Udviklingen** [Hei35e]. **Ultimate** [Mes04]. **ultra** [Hei37f]. **Ultrastrahlung** [Hei32h, Hei37f, Hei51l, HW84a]. **umbral** [DLW08]. **Umdenken** [Pfe77]. **Umdeutung** [Hei25c, Wüt16, Kav24]. **Umgang** [Döp42]. **umgearb** [Hei31b]. **Umkreis** [Ess71, Hei69d, Hei72e, Hei73c, Hei81b, Hei81c, Hei83e, Hei84-50, Hei85c, Hei86e, Hei87b, Hei88, Hei96a, Hei01a, Hei06]. **Umsatzzuwächse** [RDP+95]. **umstritten** [DRF90a, DRF90b]. **umstritten/Internationale** [DRF90a, DRF90b]. **Umwelt** [RDP+95]. **Umwelt-** [RDP+95]. **unanschauliche** [Hei46c]. **Unbestimmtheitsrelationen** [Hei31d]. **Unbounded** [Maa05, Kae48b]. **unbridled** [Hei74c]. **Uncertain** [Fra94, Hol93a, Yam02a, BB05, Pei92b]. **Uncertainties** [Ano83b, RFS+91, Swe93, dB82]. **Uncertainty** [Aga02, Ari23, AG88, Bed09, Bes04, Cas92b, Cas92c, Cop81, DGH+12, EMGM94, Fed18, Gar91, Hab83, Har73, Hei77g, Hen93, HK00, Ing70, Kae31, Lap90, Lin07, Lin08, Loe63, Man11, Meh87, MB11b, Moo93a, Moo93b, NBH97, San81, Sap10, Sch30, Sei05, Smo92d, Sta11a, Tan04, Tut05, Tya63, Van41, WMG+92, WF19, Zan02b, Žup65, dB90, AS03, Ano12, BCL+69, CBS20, Cas09, Chi01, CG14, DJR93, DD13, FR04, FR08, Hei31d, Jad14, Jau93, Jes98, Lap91, LM29, Lic16, Mar08, Mil90, NAZ02, Oza02, Oza03, Phi92, Rob69, SAR+09, SK09, Tiw14, Tri02, Wil99, Wit12, Zan02a, vD15, Ano35c, Ano83b, Ano00, App01, AP22, BKBS93, Bla86, Bro73b, CS94, Com31, Con29, Cow49a, Cow49b, Dar31, Dre92, Fer07]. **Uncertainty** [Fli32, Fli33, Fra94, Gam58, Hei75f, JHB99, Lar30, Mar31, McC94, New35, Noy31, OW10, PC77, Rot93, Sch94, Smo92a, SR49, STCW94, Swe93, For09, Kea09, Ano94, Cas91, CD94, Gar91, Phi92]. **Unclassified** [DW52]. **Uncovered** [Hür22]. **underdetermination** [Mas04]. **undergraduate** [DJR93, RS11b]. **undergraduates** [Mil12]. **undergrowth** [Gra00]. **Underlie** [Sei05]. **Understand** [Wal22]. **Understanding** [AMS04, Hei46e, Hei52m, Hei69c]. **Unendlichen** [vRFS+00]. **Unendlichen/Rebhan** [vRFS+00]. **Unerkannte** [vRFS+00]. **Unfälle** [Döp42]. **Unfinished** [DT18]. **ung** [Ano35b]. **Ungleichheit** [LSK+76].

unificación [SHD91]. **Unification** [SHD91]. **Unified** [Hei62h, Hei64a, Hei65n, Hei84-57, Hei84v, Hei84-38, Hei84-43, Hei93b, Hei93d, Rec81a, Wig67, Hei62n, Hei63c, Hei66d, Hei67d, Hei67m, Hei74p, Hei84o]. **union** [Hei52c]. **unitaire** [Hei67k]. **unitary** [Hei67k, Low97]. **United** [Sch86]. **unity** [Hei42d, Hei49c, Hei52j, Hei53f, Hei69e, Lan72]. **universal** [Hei38h, Hei69k, Hei69l]. **Universe** [Bar07, Fac82, Kae31, LSK+76, Pol95]. **Universe/Grau** [LSK+76]. **universelle** [Hei38h]. **universeller** [Hei69k, Hei69l]. **Universität** [AH93, Hei89-27, RDP+95, Rür79, SM41, SPS+64]. **Universität/Kommentar** [SPS+64]. **Universitets** [Ano44a]. **universities** [Har37a, Har37b, Har81, Hei68a, Rin61]. **University** [Bok10, Cas79a, Cas11, Hay90, Jor78, Kra86a, Lan02, Lan08, Neu99, Par06, Rür79, Sta11b, SM41, Tur06, Hei72i, Gou47a, Hei36e, Hei89-27]. **Unlikely** [Acz01]. **Unmechanischer** [Ser77]. **unpolitical** [Hei80, Hei83a, Hei91a]. **Unpolitischen** [Hei80, Hei83a, Hei91a]. **Unpublished** [O'F92, HHHH11]. **Unravelling** [FR13b]. **Unschärfe** [Bes04]. **Unschärfeprinzip** [Sch30]. **Unschärferelation** [Hei75f]. **unserem** [Hei69k, Hei69l]. **unserer** [B+61, Hei43o, Hei61e, Hei65b, SPS+64]. **Untergang** [EHR+96]. **Untergang/Verhulst** [EHR+96]. **Untersuchungen** [Hei37f, HW84a, BFH+42a, Hei59g, HBF+89b]. **Untold** [Kra86b]. **unusual** [MF69]. **unveröffentlichten** [HHHH11]. **unzuständig** [Hei50e]. **upgrade** [RDP+95]. **upon** [Hei64c]. **Uran** [DDH89a, Fis41, Mül40, Ano42, DDH42a]. **Uran-Metall** [DDH89a, DDH42a]. **Uranbombe** [Hei93f, WR92]. **Uranbrenners** [HW48, HW84b]. **Uranisotop** [vW41b]. **Uranium** [Bet00, For22, HW48, Hei93f, Kan02, KH19, MWL+15, NBDG40, PdK23, Ree19, Ano42, BDJ57, Ber96, BFH+42a, DF96, Döp42, DDH42a, DDH89a, Fis41, Hah43, Hei39e, Hei40a, Hei41g, Hei42c, Hei42e, HW84b, Hei89h, Hei89m, Hei89n, HBF+89b, KF01, Mül40, Per39, Pop18, vW41b, Sim07, Nag16]. **Uranmaschine** [Hei41g]. **Uranmetall** [Döp42]. **uranovogo** [DF96]. **Uranproblem** [Hei42c]. **Uranprojekt** [Nag16, Pop18, KPMN20]. **Urans** [Hah43]. **Uranspaltung** [BDJ57, GRE+01, Hei40a, Hei89h, Hei89m, Hei89n, KF01, Sim07, Hei39e, Hei42e]. **Uranuntersuchungen** [vW1]. **Ursprung** [Rad83, Rad91]. **usability** [Mül40]. **Use** [HB82b, Sti47, vW41b, HB82a, Hei46d]. **uses** [HVTK+97]. **using** [Flo97, JD06, MC92]. **utilization** [Hei89w].

V [EHR+96, Mat86a, Pye81, BDH70, BDR89b, Geĭ67, Geĭ68, Hei24a]. **Valediction** [Hei69a]. **Valentini** [Sta11a]. **value** [Dun86, DHYY65]. **valued** [DGS99]. **values** [Hei61a]. **Vanish** [Gre62]. **Vannevar** [Gol92]. **variables** [BC09, Hei43j, Hei44a]. **variation** [VL97, Vya99]. **Variational** [GbK77, KLV80, KSGB+83, KS92]. **variety** [Hei65p]. **Various** [DH32]. **VB** [TR09]. **Vechernie** [BDH70]. **Vectors** [Nel72, Hei27b]. **Vedas** [Tiw14]. **Vektoren** [BMG+50]. **venner** [BR64, RRK+64]. **Ventures** [Cas22]. **verabschiedet** [Ano84a]. **Veranderung** [Hei82c]. **Verantwortlichkeit**

[Tel71]. **Verantwortung** [GRE+01, KF01, Wal03]. **verb** [Haa34]. **Verbots** [Hei89-32]. **verdrängte** [Rad83, Rad91]. **Verdrängung** [Wal03]. **Vergleichende** [Hei51l]. **Verhalten** [Hei48c]. **Verhältnis** [Sch26]. **Verhältnisbestimmung** [Tre01]. **Verhältnisse** [Hei93a]. **Verhulst** [EHR+96]. **verification** [DJR93, NAZ02]. **verknüpften** [Hei34e]. **Verknüpfung** [Ano06]. **Verlag** [Ano35a, Ano08, Ben30, Ben34, Büh95, Bun71, Clu37, Deh37, DS43, Kra86a, Mos42, Str62b, Str62c, Wil36a, Wil36b]. **Verlagsanstalt** [Hei53b]. **Verlagsbuchhandlung** [Cas05]. **Verlagsgesellschaft** [Deh36, Hei31g]. **verlängert** [Ano84b]. **verlängert/Ausschreibung** [Ano84b]. **Verleihung** [Hei89-27]. **verm** [Haa34]. **Vernera** [Ano77a, Smo92a, Smo92c]. **verschiedener** [HJ43]. **verschränktes** [Paw02b]. **Verschwinden** [GHH02]. **Version** [GRE+01]. **Verständigung** [Hei46e]. **Versuch** [BBF+45, Hei42b, HBB+89, Hei89g, Tre01]. **Versuche** [Hei41a, Hei89i, DDH41a, DDH41b, DDH89f, DDH89g]. **Versuches** [Hei89e, Hei43e]. **versuchte** [Hei67a]. **versus** [CP84, dR99]. **Vertrieb** [ARK+99]. **Verwandlung** [Hei39h, Hei84-44]. **Verwendbarkeit** [Mül40]. **Verwendung** [vW41b]. **Verwundbarkeit** [DRF90a, DRF90b]. **Very** [Hei84-28, Hei38c, Hei38b, Hei55e, Hei83g]. **Vexation** [Fay07, Par06, Tur06, Hol05]. **Vibrations** [SPS+64, Jau93]. **Victor** [Ber91, CS94, Rec86]. **Victory** [Hol05, Fay07, Par06, Tur06]. **videnskab** [Fav05]. **Vielfacherzeugung** [Hei52b]. **Vielfachprozessen** [Hei49k, Hei49d, Hei84p]. **Vienna** [Hei41b]. **Vietnam** [Tut05]. **View** [Got02a, Hei42d, Hei55b, Hei56f, Hei57c, Hei58e, Hei59a, Hei60a, Hei62b, Hei63b, HG65, Hei66a, Hei68c, Hei70c, HnH72, Hei74h, Hei74d, Hei76e, Hei79d]. **Viewed** [Dah02b, Dah02a]. **viewpoints** [Bet91]. **views** [Cam07a, Hei59k, Hei61g, HBD71]. **VII** [GbK77]. **viii** [Kra07, Lan08, GORS09]. **világképe** [Hei58p]. **Vilenkin** [MGG+95]. **Vincent** [Sei90a]. **vingt** [Hei68h]. **violating** [BCL+69, Rob69]. **Violation** [RDM+12b, RDM+12a]. **Virasoro** [Bil03, FO99, LJ08, LWZ10]. **Virasoro-Toroidal** [FO99]. **virke** [BR64, RRK+64]. **virus** [Irv67c]. **Vision** [Bri29]. **Visionen** [HVTK+97]. **Visit** [Wal20b, Aas02e, Hei89r]. **Visual** [Hei77j]. **viszonya** [Sch66]. **vita** [Arg09]. **vitae** [Hei86d, Hei86h]. **Vogel** [EHR+96]. **Voice** [CS94]. **Vol** [Bro95, Kra07, Mac58, OSWR86, Pye81, Wig96m]. **Völkern** [Hei46e]. **Volksbildung** [HGW+89a]. **vollständig** [Hof23]. **vols** [Hen11]. **Volume** [BDR84c, BDR84d, BDR85b, BDR86, BDR89b, Car97, CDvW79, Eis00, Hei43g, Kra96, PvM93, Rec86, Sta09a, UM92, vMHW85, vM93, vM96, vM99, vM01, vM05b, CDvW77, FK85, HvMW79]. **Vom** [BMG+50, SPS+64, Hau22, HGW89b, HH14, WR92, vW41a, Rec02a, vM02]. **Vor** [Hei64b, ABH+55, ABH+87, Ano02a, Hei74c, Hei86c, Hof93, RDP+95]. **vor/Wir** [RDP+95]. **Voraussetzungen** [Hei59b]. **Vorbereitung** [HW48, HW84b]. **Vorfeld** [Hei57b]. **Vorlaufiger** [HBF+89c, BFH+42b]. **Vorlesung** [Hei47f, Hei51k, Hei52p]. **Vorlesungen** [Hei43g]. **Vorsicht**

[RDP+95]. **Vorsitzenden** [Hei64b]. **Vorstellungen** [Hei53o]. **Vorstoß** [vRFS+00]. **vortex** [Hei22a, Rec02a]. **Vortrag** [Hei31g, WR92, Hei89-37]. **Vorträge** [Ano35a, Ben35, BDR84b, BDR84e, Deh37, DS43, Hei43p, Hei53l, HMW+84, HHvB10, Mos42, SM41, Str62c, Wil36a, Wil36b, HSD34a, Hei43r]. **Vortragsreise** [vW41a]. **Vortragsveranstaltung** [Hei89-38]. **Vorwort** [Hei39i, Hei43s, Hei53x, Hei53v, Hei53w, Hei59h, Hei60j, Hei62m, Hei63l, Hei64f, Hei64g, Hei65q, Hei66h, Hei66i, Hei67n, Hei67o, Hei68j, Hei68k, Hei69m, Hei69n, Hei71m, Hei72n, Hei73i, Hei74q, Hei75t, Hei89-39]. **Voß** [MGG+95].

W [Ano54, Ano94, Ben30, Ben34, Ben35, Bor53, Bro85, Bro86, CS94, Fra94, Hei51k, Hei53q, Kle54, Kra86a, Kva76, Mat87, Mil58, Ome79, Sch91b, Sei90a, Str62a, Str62b, Str62c, Wil36a, Wil36b]. **W.** [Bor49, Fel54, Hei51k, Pau31, Paw06, Ros79, TW91]. **Wachstum** [HMSH78]. **Waddington** [Adl03]. **Waerden** [Hei48h]. **Waffenschmiede** [Wal05, Wal07]. **während** [Hei73a, vM05a]. **Wahrheit** [BDR85b, Hei73f]. **Wahrscheinlichkeitsaussagen** [Hei38i, Hei84-45]. **walked** [Hol18]. **Walker** [Hay90, Klo96]. **Walther** [Hei64h]. **Wandel** [BMG+50]. **wanderer** [Fis15]. **Wandlungen** [Ano35a, Ben35, Clu37, Deh37, KED+60, Mos42, Som36, Str62c, Wil36a, DS43, Hei34i, Hei34f, Hei34g, Hei34h, Hei35f, Hei36h, Hei43t, Hei44d, Hei45b, Hei47i, Hei49l, Hei59i, Hei73j, Str62a]. **want** [Büh98a]. **War** [Ber93, Cas17, FTF01, Gou46b, Gou49, Hei81a, Hol93a, Jon78, KH19, Kra86b, LH93, Pei93b, Pow93a, Sim12, Swe93, Tho97, Wil94, Boh64, Boh67, Bro93, Cas93a, Cor03, Hei56b, Hei64c, Hei89-40, Mai07, Pow93b, Pow94, Pow00, vL47, Sal19, Sim07, Tut05]. **war-relevant** [Mai07]. **Wardenburg** [Tho97]. **Warfare** [Fer92]. **Wärme** [KH47]. **warn** [ABH+55, ABH+87]. **warnen** [ABH+55, ABH+87]. **Wartime** [Dah99, GWY05a, GWY05b, Sch22, Wat01, vL48a, vL48b, SW05, Sch15]. **Warum** [Pop16a]. **Was** [Ano93b, Bro93, Gil09, Hei08a, Hol93a, Pei93b, Sei90a, Brü64, Hei48g, Hei48l, Hol93b, Brü64, Hei76h, Hei89-40]. **Washington** [Cas11]. **Wasn't** [Dah22]. **Wasser** [DDH41b, DDH89e, DDH89g, DDH40b]. **Wasserstoffmolekülion** [Tel30]. **Wastes** [SPS+64]. **Water** [Bør12, Dah99, SPS+64, Wat01, DDH40b, DDH41b, DDH89e, DDH89g]. **Water/Taylor** [SPS+64]. **Watts** [WMG+92]. **Wave** [FMV07, Hei50i, Hei55f, Hei84-46, Hen93, Lan59, LC71, RFS+91, Wei98, dB90, AH57, Cam06, Fed04, HP29, HP30, Hei38i, Hei43h, Hei46b, Hei47f, Hei50a, Hei50h, Hei52g, Hei54f, HKM55, Hei56e, Hei56m, Hei84-29, Hei84-45, Hei10b, Sch27, Tru72, dB58, dB82]. **wave-particle** [Cam06]. **wavefunction** [sMDN+11]. **wavefunctions** [Ter82]. **Wavelets** [Tor91]. **Wavepacket** [CK02b, CK02a]. **Waves** [JTD+98, PSZM02, SPS+64, Ano35b, Haa34, Hei36b, Liu72]. **Waves/Heimendahl** [SPS+64]. **way** [Hei46e]. **WE-Heraeus-Stiftung** [DRF90a].

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Heelan:1995:QMS

[Hee95] Patrick A. Heelan. Quantum mechanics and the social sciences: After hermeneutics. *Science & Education (Springer)*, 4(2):127–136, April 1995. CODEN SCEDE9. ISSN 0926-7220 (print), 1573-1901 (electronic).

Heisenberg:1922:ADK

[Hei22a] Werner Heisenberg. Die absoluten Dimensionen der Kármánschen Wirbelbewegung. (German) [The absolute dimension of the Kármán vortex motion]. *Zeitschrift für Physik*, 23(1):363–366, December 1922. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01327603`. English translation in [vdW67, pages 223–252].

Heisenberg:1922:NLD

[Hei22b] Werner Heisenberg. Nichtlaminare Lösungen der Differentialgleichungen für reibende Flussigkeiten. (German) [Nonlaminar solutions of differential equations for grinding fluids]. In Th. von Kármán and T. Levi-Civita, editors, *Vortrage aus dem Gebiete der Hydro- und Aerodynamik (Innsbruck 1922)*, pages 139–142. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1922. LCCN ????

Heisenberg:1922:QLA

[Hei22c] Werner Heisenberg. Zur Quantentheorie der Linienstruktur und der anomalen Zeemaneffekte. (German) [On the quantum theory of line structure and the anomalous Zeeman effect]. *Zeitschrift für Physik*, 8(1):273–297, December 1922. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01329602`; `http://www.springerlink.com/content/p2g7004401m14n38/`.

Heisenberg:1923:QDE

[Hei23a] Werner Heisenberg. Quantitatives über die Deformierbarkeit edelgasahnlicher lonen. (German) [Quantitative on the deformability of noble-gas-like ions]. *Verh. Dtsch. Phys. Ges. (3)*, 5(??):7–8, ???? 1923.

Heisenberg:1923:STF

[Hei23b] Werner Heisenberg. *Über Stabilität und Turbulenz von Flüssigkeitsströmmen. (German) [On stability and turbulence of fluid flow].* Dissertation, Ludwig-Maximilians-Universität München, Munich, Germany, September 1923. 59 pp.

Heisenberg:1924:BAF

[Hei24a] Werner Heisenberg. Bemerkung zu einer Arbeit von F. v. Wiśniewski: ,,Zur Theorie des Heliums". (German) [Remark on a paper by F. v. Wiśniewski: "On the theory of helium"]. *Zeitschrift für Physik*, 25(1):175–176, December 1924. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01327520`; `http://www.springerlink.com/content/g1815p05283257m4/`.

Heisenberg:1924:KUG

[Hei24b] Werner Heisenberg. Der Kampf um die Überfahrt. (German) [The battle for the crossing]. *Die Spur in ein deutsches Jugendland*, 3 (3):37–39, ???? 1924.

Heisenberg:1924:EDI

[Hei24c] Werner Heisenberg. Über den Einfluß der Deformierbarkeit der Ionen auf optische und chemische Konstanten. II: Stabilität und Bildungswärme dreiatomiger Molekeln und Ionen. (German) [On the influence of the deformability of the ions on optical and chemical constants. II: Stability and heat of formation of triatomic molecules and ions]. *Zeitschrift für Physik*,

26(1):196–204, December 1924. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01327329`; `http://www.springerlink.com/content/rw1356k1t240k063/`.

Heisenberg:1924:AFR

[Hei24d] Werner Heisenberg. Über eine Abänderung der formalen Regeln der Quantentheorie beim Problem der anomalen Zeeman-Effekte. (German) [On a modification of the formal rules of quantum theory in the problem of the anomalous Zeeman effect]. *Zeitschrift für Physik*, 26(1):291–307, December 1924. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01327336`; `http://www.springerlink.com/content/v2803t507860nw30/`.

Heisenberg:1924:STF

[Hei24e] Werner Heisenberg. Über Stabilität und Turbulenz von Flüssigkeitsströmmen. (German) [On stability and turbulence of fluid flow]. *Annalen der Physik (1900)*, 379(15):577–627, ???? 1924. ISSN 1521-3889. URL `http://adsabs.harvard.edu/abs/1924AnP...379..577H`. An English translation is available in [Hei51g].

Heisenberg:1925:BWH

[Hei25a] Werner Heisenberg. Besprechung: Wilhelm Hanle. *Über magnetische Beeinflussung der Polarisation der Resonanzfluoreszenz*. (German) [Book review: Wilhelm Hanle. *On magnetic influence on the polarization of the resonance fluorescence*]. *Physikalische Berichte*, 6(??):806–807, ???? 1925.

Heisenberg:1925:AKF

[Hei25b] Werner Heisenberg. Über eine Anwendung des Korrespondenzprinzips auf die Frage nach der Polarisation des Fluoreszenzlichtes. (German) [An application of the Correspondence Principle to the question of the polarization of fluorescence light]. *Zeitschrift für Physik*, 31(1):617–626, February/April 1925. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF02980618`; `http://www.springerlink.com/content/r8tl178265164143/`.

Heisenberg:1925:QUK

[Hei25c] Werner Heisenberg. Über quantentheoretische Umdeutung kinematischer und mechanischer Beziehungen. (German) [On quantum theoretical reinterpretation of kinematic and mechanical relations]. *Zeitschrift für Physik*, 33(1):879–893, December 1925. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01328377`; `http://www.springerlink.com/content/w22847j178u03029/`. English translation in [vdW67, pages 261–276].

Heisenberg:1925:QMA

[Hei25d] Werner Heisenberg. Zur Quantentheorie der Multiplettstruktur und der anomalen Zeemaneffekte. (German) [On the quantum theory of multiplet structure and the anomalous Zeeman effect]. *Zeitschrift für Physik*, 32(1):841–860, December 1925. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01331720`; `http://www.springerlink.com/content/r85rk473x733t55v/`.

Heisenberg:1926:MRQ

[Hei26a] Werner Heisenberg. Mehrkörperproblem und Resonanz in der Quantummechanik. (German) [Many-body problem and resonance in quantum mechanics]. *Zeitschrift für Physik*, 38(6–7): 411–426, June 1926. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01397160`; `http://www.springerlink.com/content/mth33737521280v1/`.

Heisenberg:1926:QGQa

[Hei26b] Werner Heisenberg. Quantenmechanik. (German) [Quantum mechanics]. *Naturwissenschaften*, 14(45):989–994, ???? 1926. CODEN NATWAY. ISSN 0028-1042 (print), 1432-1904 (electronic). URL `http://www.springerlink.com/content/t177018311922681`.

Heisenberg:1926:QGQb

[Hei26c] Werner Heisenberg. Quantenmechanik. (German) [Quantum mechanics]. *Zeitschrift für Angewandte Chemie*, 39(??):1177, ???? 1926. ISSN 0932-2132. Abstract of [Hei26b].

Heisenberg:1926:SQG

[Hei26d] Werner Heisenberg. Schwankungserscheinungen und Quantenmechanik. (German) [Fluctuation phenomena and quantum mechanics]. *Zeitschrift für Physik*, 40(7):501–506, July 1926. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01440827`; `http://www.springerlink.com/content/n102340512v9254q/`.

Heisenberg:1926:SAZ

[Hei26e] Werner Heisenberg. Über die Spektra von Atomsystemen mit zwei Elektronen. (German) [On the spectra of atomic systems with two electrons]. *Zeitschrift für Physik*, 39(7–8):499–518, July 1926. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01322090`; `http://www.springerlink.com/content/r1m57104030g5565/`.

Heisenberg:1926:QKM

[Hei26f] Werner Heisenberg. Über quantentheoretische Kinematik und Mechanik. (German) [On quantum theoretical kinematics and mechanics]. *Mathematische Annalen*, 95(1):683–705, 1926. CODEN MAANA3. ISSN 0025-5831 (print), 1432-1807 (electronic).

Heisenberg:1927:BMB

[Hei27a] Werner Heisenberg. Besprechung: Max Born. *Probleme der Atomdynamik*. (German) [Book review: Max Born. *Problems of Atomic Dynamics*]. *Fysisk Tidsskrift*, 25(??):96–97, ???? 1927.

Heisenberg:1927:BGB

[Hei27b] Werner Heisenberg. Besprechung: S. Goudsmit und E. Back. *Die Kopplung der Quantenvektoren bei Neon, Argon und einigen Spektren der Kohlenstoffgruppe*. (German) [Book review: S. Goudsmit und E. Back. *Coupling of the quantum vectors in neon, argon, and some spectra of the carbon group*]. *Physikalische Berichte*, 8(??): 470, ???? 1927.

Heisenberg:1927:MRQ

[Hei27c] Werner Heisenberg. Mehrkörperprobleme und Resonanz in der Quantenmechanik. II. (German) [Few-body problems and resonance in quantum mechanics. II]. *Zeitschrift für Physik*, 41 (3):239–267, August 1927. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.`

springer.com/article/10.1007/BF01391241; http://www.springerlink.com/content/ln0385427144375w/.

Heisenberg:1927:QMG

[Hei27d] Werner Heisenberg. Quantentheoretische Mechanik. (German) [Quantum theoretical mechanics]. *Deutsche Mathematiker-Vereinigung. Jahresbericht*, 36(??):24–25, ???? 1927.

Heisenberg:1927:AIQ

[Hei27e] Werner Heisenberg. Über den anschaulichen Inhalt der quantentheoretischen Kinematik und Mechanik. (German) [On the ideological content of quantum theoretical kinematics and mechanics]. *Zeitschrift für Physik*, 43(3–4):172–198, March 1927. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL http://link.springer.com/article/10.1007/BF01397280; http://www.springerlink.com/content/t8173612621026q5/. English translation in [WZ83, pages 62–84]. This is the paper in which Heisenberg introduces the famous Uncertainty Principle (Unschärferelation or Ungenauigkeit (impreciseness)).

Heisenberg:1927:GGQ

[Hei27f] Werner Heisenberg. Über die Grundprinzipien der ,,Quantenmechanik". (German) [On the basic principles of "quantum mechanics"]. *Forschungen und Fortschritte*, 3(??):83, ???? 1927.

Heisenberg:1928:BBG

[Hei28a] Werner Heisenberg. Besprechung: Birthwistle, G., *The new Quantum Mechanics. Naturwissenschaften*, 16(??):318, ???? 1928. CODEN NATWAY. ISSN 0028-1042 (print), 1432-1904 (electronic).

Heisenberg:1928:BHW

[Hei28b] Werner Heisenberg. Besprechung: Hermann Weyl, *Gruppentheorie und Quantenmechanik*. (German) [Book review: Hermann Weyl, *Group Theory and Quantum Mechanics*]. *Deutsche Literaturzeitung*, 49(??):2473–2474, ???? 1928.

Heisenberg:1928:DSC

[Hei28c] Werner Heisenberg. Discussione sulla communicazione Bohr. (Italian) [Discussions of Bohr's communication]. In ????, editor, *Atti del Congresso Internazionale dei Fisici, 11–20 Settembre 1927-V, Como–Pavia–Roma*, pages 593–594, 597. Nicola Zanichelli, Bologna, Italy, 1928. LCCN ????

Heisenberg:1928:QFG

[Hei28d] Werner Heisenberg. Zur Quantentheorie des Ferromagnetismus. (German) [On the quantum theory of ferromagnetism]. In P. Debye, editor, *Probleme der modernen Physik: Arnold Sommerfeld zum 60. Geburtstage gewidmet von semen Schülern. (German) [Problems of modern physics: Arnold Sommerfeld's 60th Birthday, dedicated by his pupils]*, pages 114–122. S. Hirzel, Leipzig, Germany, 1928. LCCN ????

Heisenberg:1928:TFG

[Hei28e] Werner Heisenberg. Zur Theorie des Ferromagnetismus. (German) [On the theory of ferromagnetism]. *Zeitschrift für Physik*, 49(9–10):619–636, September 1928. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01328601`; `http://www.springerlink.com/content/w77836623761874g/`.

Heisenberg:1929:EQG

[Hei29a] Werner Heisenberg. Die Entwicklung der Quantentheorie 1918–1928. (German) [The development of the quantum theory 1918–1928]. *Naturwissenschaften*, 17(26):490–496, ???? 1929. CODEN NATWAY. ISSN 0028-1042 (print), 1432-1904 (electronic). URL `http://www.springerlink.com/content/p1179238357h7776`.

Heisenberg:1929:HEQ

[Hei29b] Werner Heisenberg. *Die historische Entwicklung der Quantentheorie. (German) [The historical development of quantum theory]*. Fr. Oldecops Erben, Oschatz, Germany, 1929. ???? pp.

Heisenberg:1929:TLP

[Hei29c] Werner Heisenberg. *Two Lectures: 1. The Present Situation in the Theory of Elementary Particles. 2. The Electron Theory of Superconductivity*. Cambridge University Press, Cambridge, UK, 1929. 52 pp. LCCN ????

Heisenberg:1930:BGE

[Hei30a] E. Heisenberg. Bericht über die Gründung und die erste Tagung der Deutschen Gesellschaft für photographische Forschung (23. bis 25. Mai 1930). (German) [Report on the establishment and first meeting of the German Society for Photographic Research (23 to May 25, 1930)]. *Naturwissenschaften*, 18(52):1130–1131, ???? 1930. CODEN NATWAY. ISSN 0028-1042 (print),

1432-1904 (electronic). URL `http://www.springerlink.com/content/u5158064h268j564`.

Heisenberg:1930:BBP

[Hei30b] Werner Heisenberg. Besprechung: *The principles of Quantum mechanics*. Von P. A. M. Dirac. *Metallwirtschaft*, 9(??):988, ???? 1930.

Heisenberg:1930:BPM

[Hei30c] Werner Heisenberg. Buchbesprechung: P. A. M. Dirac *The Principles of Quantum Mechanics*. *Metallwirtschaft*, 9(??):988–??, ???? 1930.

Heisenberg:1930:PPQa

[Hei30d] Werner Heisenberg. *Die physikalischen Prinzipien der Quantentheorie. (German) [The physical principles of quantum mechanics]*. Hirzel, Leipzig, Germany, 1930. viii + 115 pp. LCCN ????

Heisenberg:1930:SEG

[Hei30e] Werner Heisenberg. Die Selbstenergie des Elektrons. (German) [The self-energy of the electron]. *Zeitschrift für Physik*, 65(1–2):4–13, November 1930. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01397404`; `http://www.springerlink.com/content/t61j113n618m2j11/`.

Heisenberg:1930:FTF

[Hei30f] Werner Heisenberg. Fortschritte in der Theorie des Ferromagnetismus. (German) [Advances in the theory of ferromagnetism]. *Metallwirtschaft*, 9(??):843–844, ???? 1930.

Heisenberg:1930:KQGb

[Hei30g] Werner Heisenberg. Kausalgesetz und Quantenmechanik. (German) [Causality and quantum mechanics]. *Z. angew. Phys.*, 43 (??):853–854, ???? 1930. Abstract of [Hei31e].

Heisenberg:1930:KQGa

[Hei30h] Werner Heisenberg. Kausalität und Quantenmechanik. (German) [Causality and quantum mechanics]. *Naturwissenschaften*, 18(??): 1068–??, ???? 1930. CODEN NATWAY. ISSN 0028-1042 (print), 1432-1904 (electronic).

Heisenberg:1930:PPQb

[Hei30i] Werner Heisenberg. *The Physical Principles of the Quantum Theory*. University of Chicago Press, Chicago, IL, USA, 1930. ???? pp. LCCN ???? English translation of [Hei30d].

Heisenberg:1931:BSG

[Hei31a] Werner Heisenberg. Bemerkungen zur Strahlungstheorie. (German) [Remarks on radiation theory]. *Annalen der Physik (1900)*, 401(3):338–346, March 1931. ISSN 1521-3889. URL `http://onlinelibrary.wiley.com/doi/10.1002/andp.19314010305/abstract`.

Heisenberg:1931:BHW

[Hei31b] Werner Heisenberg. Besprechung: Hermann Weyl, *Gruppentheorie und Quantenmechanik*, 2. umgearb. Aufl. (German) [Book review: Hermann Weyl, *Group Theory and Quantum Mechanics*, 2nd revised edition]. *Deutsche Literaturzeitung*, 52(??):424–425, ???? 1931.

Heisenberg:1931:BLB

[Hei31c] Werner Heisenberg. Besprechung: Leon Brillouin, *Les Statistiques Quantiques et leurs applications*. (German) [Book review: Leon Brillouin, *Quantum statistics and their applications*]. *Physikalische Zeitschrift*, 32(??):150–151, ???? 1931. CODEN PHZTAO. ISSN 0369-982X.

Heisenberg:1931:RUM

[Hei31d] Werner Heisenberg. Die Rolle der Unbestimmtheitsrelationen in der modernen Physik. (German) [The role of the uncertainty relations in the modern physics]. *Monatshefte für Mathematik und Physik*, 38(1):365–372, 1931. CODEN MMPHA8. ISSN 0026-9255 (print), 1436-5081 (electronic).

Heisenberg:1931:KQG

[Hei31e] Werner Heisenberg. Kausalgesetz und Quantenmechanik. (German) [Causality and quantum mechanics]. *Erkenntnis*, 2(1): 172–182, ???? 1931. CODEN ???? ISSN ???? URL `http://www.springerlink.com/content/r1v3282l62551554/fulltext.pdf`.

Heisenberg:1931:NAH

[Hei31f] Werner Heisenberg. Notiz zur Arbeit des Herrn N. Tunazima: Zum Ferromagnetismus. (German) [Note on the work of

Mr. N. Tunazima: On the ferromagnetism]. *Zeitschrift für Physik*, 68(9–10):720, September 1931. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01390593`; `http://www.springerlink.com/content/k34635h0n1n05026/`.

Heisenberg:1931:PRA

[Hei31g] Werner Heisenberg. Positivismus und reale Außenwelt. Von M. Planck. Vortrag, gehalten am 12. November 1930 im Harnack-Haus der Kaiser Wilhelm-Gesellschaft zur Förderung der Wissenschaften. 35 Seiten. Akademische Verlagsgesellschaft, Leipzig 1931. (German) [Positivism and the real world outside. On Max Planck. Lecture, held on 12 November 1930 at the Harnack House the Kaiser Wilhelm Society for the F romoting the Sciences. 35 pages. academic Verlagsgesellschaft, Leipzig, 1931]. *Angewandte Chemie*, 44(10):189, March 1931. CODEN ANCEAD. ISSN 1521-3757. URL `http://onlinelibrary.wiley.com/doi/10.1002/ange.19310441010/abstract`.

Heisenberg:1931:PMP

[Hei31h] Werner Heisenberg. Probleme der modernen Physik. (German) [Problems of modern physics]. *Berliner Tageblatt*, 60(607):??, December 25, 1931. Morgen-Ausgabe, 1 Beiblatt [Morning Edition, 1 Supplement].

Heisenberg:1931:ISR

[Hei31i] Werner Heisenberg. Über die inkohärente Streuung von Röntgenstrahlen. (German) [On the incoherent diffusion of X-rays]. *Physikalische Zeitschrift*, 32(19):737–740, October 1, 1931. CODEN PHZTAO. ISSN 0369-982X.

Heisenberg:1931:EES

[Hei31j] Werner Heisenberg. Über Energieschwankungen in einem Strahlungsfeld. (German) [Energy fluctuations in a radiation field]. *Sächs. Akad. Wiss. (Leipzig), Berichte d. math.-phys. Kl.*, 83(??):3–9, ???? 1931.

Heisenberg:1931:PAG

[Hei31k] Werner Heisenberg. Zum Paulischen Ausschließungsprinzip. (German) [On Pauli's Exclusion Principle]. *Annalen der Physik (1900)*, 402(7):888–904, 1931. ISSN 1521-3889. URL `http://onlinelibrary.wiley.com/doi/10.1002/andp.19314020710/abstract`.

Heisenberg:1931:TMM

[Hei31l] Werner Heisenberg. Zur Theorie der Magnetostriktion und der Magnetisierungskurve. (German) [On the theory of magnetostriction and magnetization curve]. *Zeitschrift für Physik*, 69(5–6): 287–297, May 1931. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01391350`; `http://www.springerlink.com/content/t88384n177787623/`.

Heisenberg:1932:BRB

[Hei32a] Werner Heisenberg. Book review: Bateman, *Partial Differential Equation of Mathematical Physics*. *Physikalische Zeitschrift*, 33 (??):454, ???? 1932. CODEN PHZTAO. ISSN 0369-982X.

Heisenberg:1932:CDS

[Hei32b] Werner Heisenberg. Contribution to discussion on the structure of simple molecules. In ????, editor, *Chemistry at the Centenary (1931) Meeting of the British Association for the Advancement of Science*, pages 247–248. W. Heifer & Sons, Cambridge, UK, 1932. LCCN ????

Heisenberg:1932:NPP

[Hei32c] Werner Heisenberg. The Nobel Prize in Physics 1932. Nobelprize.org, 1932. URL `http://www.nobelprize.org/nobel_prizes/physics/laureates/1932/`. The Nobel Prize in Physics 1932 was awarded to Werner Heisenberg "for the creation of quantum mechanics, the application of which has, inter alia, led to the discovery of the allotropic forms of hydrogen".

Heisenberg:1932:PMP

[Hei32d] Werner Heisenberg. Probleme der modernen Physik. (German) [Problems of modern physics]. *Deutsche Optische Wochenschrift*, 18(2):27–28, ???? 1932. Reprint of [Hei31h].

Heisenberg:1932:TUH

[Hei32e] Werner Heisenberg. Theoretische Überlegungen zur Höhenstrahlung. (German) [Theoretical considerations of cosmic radiation]. *Annalen der Physik (1900)*, 405(4):430–452, 1932. ISSN 1521-3889. URL `http://onlinelibrary.wiley.com/doi/10.1002/andp.19324050404/abstract`.

Heisenberg:1932:BAG

[Hei32f] Werner Heisenberg. Über den Bau der Atomkerne. I. (German) [On the structure of the nucleus. I]. *Zeitschrift für Physik*, 77(1–2):1–11, January 1932. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01342433`; `http://www.springerlink.com/content/gt251k5258372318/`. See also partial English translation [Hei65g].

Heisenberg:1932:BAI

[Hei32g] Werner Heisenberg. Über den Bau der Atomkerne. II. (German) [On the structure of the nucleus. II]. *Zeitschrift für Physik*, 78(3–4):156–164, March 1932. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01337585`; `http://www.springerlink.com/content/m77927k66q803736/`.

Heisenberg:1932:DUH

[Hei32h] Werner Heisenberg. Über die durch Ultrastrahlung hervorgerufenen Zertrümmerungsprozesse. (German) [On the cause of fragmentation processes from cosmic rays]. *Naturwissenschaften*, 20 (21):365–366, ???? 1932. CODEN NATWAY. ISSN 0028-1042 (print), 1432-1904 (electronic). URL `http://www.springerlink.com/content/j3134692417w4647`.

Heisenberg:1932:KGNa

[Hei32i] Werner Heisenberg. Über Kernmechanik. (German) [On nuclear mechanics]. *Göttinger Nachrichten*, ??(??):??, ???? 1932. Sonderausgabe [special edition].

Heisenberg:1932:KGNb

[Hei32j] Werner Heisenberg. Über Kernmechanik. (German) [On nuclear mechanics]. *Physikalische Blätter*, 18(??):557–558, ???? 1932. CODEN PHBLAG. ISSN 0031-9279 (print), 1521-3722 (electronic). URL `https://www.aip.org/history/heisenberg/bibliography/1960-64.htm`. Reprint of [Hei32i].

Heisenberg:1933:DQM

[Hei33a] Werner Heisenberg. The development of quantum mechanics. Nobel Lectures Web site, December 11, 1933. URL `https://www.nobelprize.org/prizes/physics/1932/heisenberg/lecture/`.

Heisenberg:1933:BAI

[Hei33b] Werner Heisenberg. Über den Bau der Atomkerne. III. (German) [On the structure of the nucleus. III]. *Zeitschrift für Physik*, 80(9–10):587–596, September 1933. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01335696`; `http://www.springerlink.com/content/j05335316h41783t/`. Partial English translation in [**?**].

Heisenberg:1933:SRM

[Hei33c] Werner Heisenberg. Über die Streuung von Rontgenstrahlen an MolekUlen und Kristallen. (German) [On the scattering of X-rays of molecules and crystals]. *Ergeb. Tech. Röntgenkd.*, 3(??):26–31, ???? 1933.

Heisenberg:1933:GPN

[Hei33d] Werner Heisenberg. Zur Geschichte der physikalischen Naturerklärung. (German) [The history of the physical nature of explanation]. *Ber. Sächs. Akad. Wiss. (Leipzig) math. phys. Kl.*, 85(??):29–40, ???? 1933. English translation in [Hei52k, pages 27–40].

Heisenberg:1934:BDT

[Hei34a] Werner Heisenberg. Bemerkungen zur Diracschen Theorie des Positrons. (German) [Remarks on the Dirac theory of the positron]. *Zeitschrift für Physik*, 90(3–4):209–231, March 1934. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01333516`; `http://www.springerlink.com/content/vr14wp0778r73025/`. See correction [Hei34b].

Heisenberg:1934:BAB

[Hei34b] Werner Heisenberg. Berichtigung zu der Arbeit: ,,Bemerkungen zur Diracschen Theorie des Positrons". (German) [Correction on the work: "Remarks on the Dirac theory of the positron"]. *Zeitschrift für Physik*, 92(9–10):692, September 1934. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01340782`; `http://www.springerlink.com/content/l0710nm9813n7622/`. See [Hei34a].

Heisenberg:1934:CTG

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Heisenberg:1934:EQG

[Hei34d] Werner Heisenberg. Die Entwicklung der Quantenmechanik. (German) [The development of quantum mechanics]. In *Die moderne Atomtheorie: Die bei der Entgegennahme des Nobelpreises 1933 in Stockholm gehaltenen Vorträge. (German) [Lectures on modern atomic theory: the acceptance of the Nobel Prize in 1933 in Stockholm]*, pages 1–18. S. Hirzel, Leipzig, 1934. LCCN ????

Heisenberg:1934:EMS

[Hei34e] Werner Heisenberg. Über die mit der Entstehung von Materie aus Strahlung verknüpften Ladungsschwankungen. (German) [Charge fluctuations connected with the creation of matter]. *Sächs. Akad. Wiss. (Leipzig), Berichte d. math.-phys. Kl.*, 86(??):317–322, ???? 1934.

Heisenberg:1934:WGEb

[Hei34f] Werner Heisenberg. Wandlungen der Grundlagen der exakten Naturwissenschaft in jüngster Zeit. (German) [Changes in the fundamentals of the exact science in recent times]. *Angewandte Chemie*, 47(45):763, 1934. CODEN ANCEAD. ISSN 1521-3757.

Heisenberg:1934:WGEc

[Hei34g] Werner Heisenberg. Wandlungen der Grundlagen der exakten Naturwissenschaft in jüngster Zeit. (German) [Changes in the fundamentals of the exact science in recent times]. *Naturwissenschaften*, 22(40):669–675, ???? 1934. CODEN NATWAY. ISSN 0028-1042 (print), 1432-1904 (electronic). URL `http://www.springerlink.com/content/l54t407881124377`.

Heisenberg:1934:WGEd

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Heisenberg:1934:WGEa

[Hei34i] Werner Heisenberg. Wandlungen der Grundlagen der exakten Naturwissenschaft in jüngster Zeit. (German) [Recent changes in the foundations of exact science]. *Angewandte Chemie*, 47(41): 697–702, 1934. CODEN ANCEAD. ISSN 1521-3757. English translation in [Hei52k, 697–702].

Heisenberg:1934:WTF

[Hei34j] Werner Heisenberg. Wissenschaft und technischer Fortschritt. (German) [Science and technical progress]. *Stahl und Eisen*, 54 (??):749–752, ???? 1934.

Heisenberg:1935:BTA

[Hei35a] Werner Heisenberg. Bemerkungen zur Theorie des Atomkerns. (German) [Remarks on the theory of the atomic nucleus]. In ????, editor, *Pieter Zeeman 1865–25 Mei-1935 Verhandelingen op 25 Mei 1935 Aangeboden aan Prof Dr P Zeeman. (Dutch) [Pieter Zeeman 1865–25 May 1935 Discourses on 25 May 1935. Presented to Prof. Dr. P Zeeman]*, pages 108–116. Martinus Nijhoff, The Hague, The Netherlands, 1935. LCCN ????

Heisenberg:1935:BMP

[Hei35b] Werner Heisenberg. Besprechung: Max Planck, *Die Physik im Kampf um die Weltanschauung*. (German) [Book review: Max Planck, *The physics in the struggle of belief*]. *Naturwissenschaften*, 23(??):321, ???? 1935. CODEN NATWAY. ISSN 0028-1042 (print), 1432-1904 (electronic).

Heisenberg:1935:SLA

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Heisenberg:1935:NBF

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Heisenberg:1935:UAK

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Heisenberg:1935:WGN

[Hei35f] Werner Heisenberg. *Wandlungen in den Grundlagen der Naturwissenschaft. (German) [Changes in the fundamentals of natural science]*. Hirzel, Leipzig, Germany, 1935. 45 pp. LCCN ????

Heisenberg:1935:WHA

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Heisenberg:1936:BEP

[Hei36a] Werner Heisenberg. Besprechung: Enrico Persico, *Fondamenti della Meccanica Atomica*. (German) [Book review: Enrico Persico, *Fundamentals of Atomic Mechanics*]. *Naturwissenschaften*, 24(??):639, ???? 1936. CODEN NATWAY. ISSN 0028-1042 (print), 1432-1904 (electronic).

Heisenberg:1936:BEF

[Hei36b] Werner Heisenberg. Besprechung: Erwin Fues, *Beugungsversuche mit Materiewellen. Einführung in die Quantenmechanik*. (German) [Book review. Erwin Fues, *Diffraction experiments with matter waves. Introduction to quantum mechanics*]. *Deutsche Literaturzeitung*, 57(??):684–686, ???? 1936.

Heisenberg:1936:BPJ

[Hei36c] Werner Heisenberg. Besprechung: P. Jordan, *Anschauliche Quantentheorie*. (German) [Book review: P. Jordan, *Illustrative quantum theory*]. *Naturwissenschaften*, 24(??):558–559, ???? 1936. CODEN NATWAY. ISSN 0028-1042 (print), 1432-1904 (electronic).

Heisenberg:1936:DSE

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Heisenberg:1936:LHA

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Heisenberg:1936:PFM

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Heisenberg:1936:SKS

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Heisenberg:1936:WGN

[Hei36h] Werner Heisenberg. *Wandlungen in den Grundlagen der Naturwissenschaft. (German) [Changes in the fundamentals of natural science]*. Hirzel, Leipzig, Germany, 1936. 63 pp. LCCN ????

Heisenberg:1936:ADJ

[Hei36i] Werner Heisenberg. Zum Artikel: Deutsche und jüdische Physik. Entgegnung von Prof. Dr. Heisenberg. (German) [On the article: German and Jewish physics. Reply by Prof. Dr. Heisenberg]. *Völkischer Beobachter (Northern edition (A))*, 59(6):6, February 28, 1936. This is a reply to [Men36]. See also the American news story [Ano36].

Heisenberg:1936:TSH

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Heisenberg:1937:CCR

[Hei37a] Werner Heisenberg. Concerning cosmic-ray showers. *Research and Progress*, 3(??):32–34, ???? 1937. English translation of [Hei36g].

Heisenberg:1937:DSE

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Heisenberg:1937:FGN

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Heisenberg:1937:FTA

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Heisenberg:1937:GAN

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Heisenberg:1937:TUU

[Hei37f] Werner Heisenberg. Theoretische Untersuchungen zur Ultrastrahlung. (German) [Theoretical studies on ultra radiation]. *Verh. Dtsch. Phys. Ges. (3)*, 18(??):50–??, ???? 1937.

Heisenberg:1938:SEM

[Hei38a] Werner Heisenberg. Das schwere Elektron (Mesotron) und seine Rolle in der Höhenstrahlung. (German) [The heavy electron

(mesotron) and its role in the cosmic radiation]. *Angewandte Chemie*, 52(??):41–42, ???? 1938. CODEN ANCEAD. ISSN 0044-8249 (print), 1521-3757 (electronic). Physikalisches Colloquium Hamburg 1 December 1938.

Heisenberg:1938:DSEb

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Heisenberg:1938:DSEa

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Heisenberg:1938:ADK

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Heisenberg:1938:GAT

[Hei38e] Werner Heisenberg. Die gegenwärtigen Aufgaben der theoretischen Physik. (German) [The current problems of theoretical physics]. *Scientia (3)*, 32(??):61–69, ???? 1938.

Heisenberg:1938:GAB

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Heisenberg:1938:MPA

[Hei38g] Werner Heisenberg. Max Planck. Achtzig Jahre alt. (German) [Max Planck. Eighty years old]. *Kölnische Zeitung*, 201(??):1–2, April 23, 1938.

Heisenberg:1938:TEA

[Hei38h] Werner Heisenberg. Über die in der Theorie der Elementarteilchen auftretende universelle Länge. (German) [On the theory of elementary particles in the occurring universal length]. *Annalen der Physik (1900)*, 424(1–2):20–33, 1938. ISSN 1521-3889.

Heisenberg:1938:WQW

[Hei38i] Werner Heisenberg. Wahrscheinlichkeitsaussagen in der Quantentheorie der Wellenfelder. (German) [Probability statements in the quantum theory of wave fields]. *Actual. Sci. & Ind. (Paris)*, 743/I (??):45–51, ???? 1938.

Heisenberg:1939:BAS

[Hei39a] Werner Heisenberg. Besprechung: Arnold Sommerfeld, *Atombau und Spektrallinien*. 2. Band. (German) [Book review: Arnold Sommerfeld, *Atomic structure and spectral lines*]. *Naturwissenschaften*, 27(??):741–742, ???? 1939. CODEN NATWAY. ISSN 0028-1042 (print), 1432-1904 (electronic).

Heisenberg:1939:BRO

[Hei39b] Werner Heisenberg. Besprechung: R. Orthner, *Die drei Grundphänomene der Physik und ihre Deutung*. (German) [Book review: R. Orthner, *Three basic phenomena of physics and their interpretation*]. *Z. techn. Phys*, 20(??):326, ???? 1939.

Heisenberg:1939:AHS

[Hei39c] Werner Heisenberg. De atoomkern in hare samenstelling. (Dutch) [The nucleus in its composition]. *Nederlands Tijdschrift voor Natuurkunde*, 6(??):89–98, ???? 1939.

Heisenberg:1939:EJZ

[Hei39d] Werner Heisenberg. Die Entwicklung der jüngsten Zweige der Atomphysik in Deutschland. (German) [The development of the youngest branches of atomic physics in Germany]. *Forschungen und Fortschritte*, 15(??):241–244, ???? 1939. English translation in [Hei40b].

Heisenberg:1939:MTE

[Hei39e] Werner Heisenberg. Die Möglichkeit der technischen Energiegewinnung aus der Uranspaltung. (German) [The possibility

of technical acquisition of energy from uranium fission]. Kernphysikalische Forschungsberichte G-39, Uranverein, Kaiser Wilhelm Institut für Physik in Berlin-Dahlem, Berlin, Germany, December 6, 1939. 19 pp.

Heisenberg:1939:EKS

[Hei39f] Werner Heisenberg. Elementarteilchen und kosmische Strahlung (Abstrakt). (German) [Elementary particles and cosmic radiation (abstract)]. *Verhandlungen der Deutschen Physikalischen Gesellschaft. 3. Reihe*, 20(??):9, ???? 1939. CODEN VDPEAZ. ISSN 0372-5448.

Heisenberg:1939:TESb

[Hei39g] Werner Heisenberg. On the theory of explosion showers in cosmic rays (abstract). *Reviews of Modern Physics*, 11(3–4):241, July 1939. CODEN RMPHAT. ISSN 0034-6861 (print), 1538-4527 (electronic), 1539-0756. URL `http://link.aps.org/doi/10.1103/RevModPhys.11.241`; `http://rmp.aps.org/abstract/RMP/v11/i3-4/p241_1`.

Heisenberg:1939:VKS

[Hei39h] Werner Heisenberg. Verwandlung der kosmischen Strahlung in der Atmosphäre (Abstrakt). (German) [Transformation of cosmic radiation in the atmosphere (abstract)]. *Verhandlungen der Deutschen Physikalischen Gesellschaft. 3. Reihe*, 20(??):21–22, ???? 1939. CODEN VDPEAZ. ISSN 0372-5448.

Heisenberg:1939:VGF

[Hei39i] Werner Heisenberg. Vorwort. (German) [Foreword]. In Louis de Broglie, editor, *Licht und Materie*, pages 7–8. H. Groverts-Verlag, Hamburg, Germany, 1939. LCCN ????

Heisenberg:1939:TESa

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Heisenberg:1940:BMT

[Hei40a] Werner Heisenberg. Bericht über die Möglichkeit technischer Energiegewinnung aus der Uranspaltung (II). (German) [Report on

the technical possibility of energy from fission of uranium (II)]. Kernphysikalische Forschungsberichte G-40, Uranverein, Kaiser Wilhelm Institut für Physik in Berlin-Dahlem, Berlin, Germany, February 29, 1940. 22 pp.

Heisenberg:1940:DMR

[Hei40b] Werner Heisenberg. The development of the most recent branches of atomic physics in Germany. *Research and Progress*, 6(??):33–42, ???? 1940. English translation of [Hei39d].

Heisenberg:1941:BVS

[Hei41a] Werner Heisenberg. Bericht über die Versuche mit Schichtenanordnungen von Präparat 38 und Paraffin am Kaiser Wilhelm Institut für Physik in Berlin-Dahlem. (German) [Report on experiments with a layer arrangement of preparation 38 and paraffin at the Kaiser Wilhelm Institute for Physics in Berlin-Dahlem]. Kernphysikalische Forschungsberichte G-93, Uranverein, Kaiser Wilhelm Institut für Physik in Berlin-Dahlem, Berlin, Germany, May 1941.

Heisenberg:1941:CPG

[Hei41b] Werner Heisenberg. Chemisch-Physikalische Gesellschaft in Wien (gemeinsam mit dem Gauverein Ostmark der Deutschen physikalischen Gesellschaft) Sitzung am 30. April 1941. (German) [Chemical-Physical Society in Vienna (together with the German Ostmark Gauverein physical Society) meeting on 30 April 1941]. *Angewandte Chemie*, 54(29–30):348, 1941. CODEN ANCEAD. ISSN 0044-8249 (print), 1521-3757 (electronic).

Heisenberg:1941:DKH

[Hei41c] Werner Heisenberg. Die durchdringende Komponente der Höhenstrahlung. (German) [The penetrating component of cosmic rays]. *Angewandte Chemie*, 54(??):348, ???? 1941. CODEN ANCEAD. ISSN 0044-8249 (print), 1521-3757 (electronic).

Heisenberg:1941:GNF

[Hei41d] Werner Heisenberg. Die Goethe'sche und die Newton'sche Farbenlehre im Lichte der modernen Physik. (German) [Goethe's and Newton's theory of color in the light of modern physics]. *Geist der Zeit (N.F.)*, 19(??):261–275, ???? 1941. English translation in [Hei52o].

Heisenberg:1941:TNB

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Heisenberg:1941:MEH

[Hei41f] Werner Heisenberg. Über die Möglichkeit der Energieerzeugung mit Hilfe des Isotops 238. (German) [On the possibility of energy production with the help of isotope 238]. Kernphysikalische Forschungsberichte G-92, Uranverein, Kaiser Wilhelm Institut für Physik in Berlin-Dahlem, Berlin, Germany, November 19, 1941. 15 pp.

Heisenberg:1941:DAU

[Hei41g] Werner Heisenberg. Zur Durchführung der Arbeiten an der Uranmaschine. (German) [On carrying out work on the uranium machine]. Report 34, Archives of the Max Planck Society, Berlin, Germany (AMPG). I. Abteilung, Berlin, Germany, November 27, 1941.

Heisenberg:1942:JEG

[Hei42a] Werner Heisenberg. 100 Jahre Energiegesetz. (German) [100 years of the energy law]. *Deutsche Allgemeine Zeitung*, 536(??):1–2, November 9, 1942.

Heisenberg:1942:BGH

[Hei42b] Werner Heisenberg. Bemerkungen zu dem geplanten halbtechnischen Versuch mit 1,5 to D2O und 3 to 38-Metall. (German) [Comments on the proposed pilot plant test with 1.5 tonnes D_2O and 3 tonnes 38-metal]. Kernphysikalische Forschungsberichte G-161, Uranverein, Kaiser Wilhelm Institut für Physik in Berlin-Dahlem, Berlin, Germany, July 31, 1942. 8 pp.

Heisenberg:1942:AUG

[Hei42c] Werner Heisenberg. Die Arbeiten am Uranproblem. (German) [Working on the uranium problem]. Report 34, Archives of the Max Planck Society, Berlin, Germany (AMPG). I. Abteilung, Berlin, Germany, June 4, 1942. ???? pp.

Heisenberg:1942:ENW

[Hei42d] Werner Heisenberg. *Die Einheit des naturwissenschaftlichen Weltbildes. (German) [The unity of the scientific world view].* Barth, Leipzig, Germany, 1942. 31 pp. LCCN ???? English translation in [Hei52j].

Heisenberg:1942:TGE

[Hei42e] Werner Heisenberg. Die theoretischen Grundlagen [für?] der Energiegewinnung aus der Uranspaltung. (German) [The theoretical basis of the energy from the fission of uranium]. Report G-323, Uranverein, Kaiser Wilhelm Institut für Physik in Berlin-Dahlem, Berlin, Germany, February 26, 1942. 5 pp. Reprinted in [BDR89a, page 517]. Also preserved as Deutsches Museum Archiv, report FA-002-761.

Heisenberg:1943:TES

[Hei43a] Werner Heisenberg. 12. Theorie der explosionsartigen Schauer. (German) [12. Theory of explosion-like showers]. In *Kosmische Strahlung: Vorträge gehalten im Max Planck-Institut, Berlin-Dahlem. (German) [Cosmic radiation: Lectures held in the Max Planck Institute, Berlin-Dahlem]* [Hei43p], pages 115–118. LCCN ???? Lectures in honor of Arnold Sommerfeld. With contributions by Erich Bagge, Fritz Bopp, Siegfried Flügge, Werner Heisenberg, A. Klemm, J. Meixner, G. Molière, H. Volz, Carl Friedrich von Weizsäcker, and Karl Wirtz. English translation in [Hei46a].

Heisenberg:1943:KGC

[Hei43b] Werner Heisenberg. 2. Die Kaskadentheorie. (German) [2. Cascade theory]. In *Kosmische Strahlung: Vorträge gehalten im Max Planck-Institut, Berlin-Dahlem. (German) [Cosmic radiation: Lectures held in the Max Planck Institute, Berlin-Dahlem]* [Hei43p], pages 10–24. LCCN ???? Lectures in honor of Arnold Sommerfeld. With contributions by Erich Bagge, Fritz Bopp, Siegfried Flügge, Werner Heisenberg, A. Klemm, J. Meixner, G. Molière, H. Volz, Carl Friedrich von Weizsäcker, and Karl Wirtz. English translation in [Hei46a].

Heisenberg:1943:SDT

[Hei43c] Werner Heisenberg. 5. Schauer mit durchdringenden Teilchen. (German) [5. Showers with penetrating particles]. In *Kosmische Strahlung: Vorträge gehalten im Max Planck-Institut, Berlin-Dahlem. (German) [Cosmic radiation: Lectures held in the Max*

Planck Institute, Berlin-Dahlem] [Hei43p], pages 54–60. LCCN ???? Lectures in honor of Arnold Sommerfeld. With contributions by Erich Bagge, Fritz Bopp, Siegfried Flügge, Werner Heisenberg, A. Klemm, J. Meixner, G. Molière, H. Volz, Carl Friedrich von Weizsäcker, and Karl Wirtz. English translation in [Hei46a].

Heisenberg:1943:RZM

[Hei43d] Werner Heisenberg. 8. Der radioaktive Zerfall der Mesonen. (German) [8. The radioactive decay of mesons]. In *Kosmische Strahlung: Vorträge gehalten im Max Planck-Institut, Berlin-Dahlem. (German) [Cosmic radiation: Lectures held in the Max Planck Institute, Berlin-Dahlem]* [Hei43p], pages 78–84. LCCN ???? Lectures in honor of Arnold Sommerfeld. With contributions by Erich Bagge, Fritz Bopp, Siegfried Flügge, Werner Heisenberg, A. Klemm, J. Meixner, G. Molière, H. Volz, Carl Friedrich von Weizsäcker, and Karl Wirtz. English translation in [Hei46a].

Heisenberg:1943:AGV

[Hei43e] Werner Heisenberg. Auswertung des Gottower Versuches. (German) [Evaluation of the Gottow experiment]. Report G-219, Uranverein, Kaiser Wilhelm Institut für Physik in Berlin-Dahlem, Berlin, Germany, 1943. 12 pp.

Heisenberg:1943:BGWa

[Hei43f] Werner Heisenberg. B. O. Grönbloms wissenschaftliche Arbeiten. (German) [B. O. Grönblom's scientific work]. *Acta Academiae Aboenis. Math. et Phys.*, 14(4):1–18, ???? 1943.

Heisenberg:1943:BAS

[Hei43g] Werner Heisenberg. Besprechung: Arnold Sommerfeld, *Vorlesungen über theoretische Physik. Bd. I. Mechanik*. (German) [Book review: Arnold Sommerfeld, *Lectures on Theoretical Physics. Volume 1. Mechanics*]. *Naturwissenschaften*, 31(??):350–351, ???? 1943. CODEN NATWAY. ISSN 0028-1042 (print), 1432-1904 (electronic).

Heisenberg:1943:BGWb

[Hei43h] Werner Heisenberg. Besprechung: Gregor Wentzel, *Einführung in die Quantentheorie der Wellenfelder*. (German) [Book review: Gregor Wentzel, *Introduction to the quantum theory of wave fields*]. *Naturwissenschaften*, 31(??):251–252, ???? 1943. CODEN NATWAY. ISSN 0028-1042 (print), 1432-1904 (electronic).

Heisenberg:1943:BMP

[Hei43i] Werner Heisenberg. Besprechung: Max Planck: *Wege zur physikalischen Erkenntnis*. Bd. II. (German) [Book review: Max Planck, *Paths to physical knowledge*]. *Leipziger Neueste Nachrichten, Ausg. A*, ??(??):??, June 25, 1943.

Heisenberg:1943:BGTb

[Hei43j] Werner Heisenberg. Die "beobachtbaren Größen" in der Theorie der Elementarteilchen. II. (German) ["Observable variables" in the theory of elementary particles. II]. *Zeitschrift für Physik*, 120(11–12):673–702, November 1943. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01336936`; `http://www.springerlink.com/content/r744562625813k35/`.

Heisenberg:1943:BMT

[Hei43k] Werner Heisenberg. Die Bewertung der ,,modernen theoretischen Physik". (German) [The evaluation of "modern theoretical physics"]. *Zeitschrift für die gesamte Naturwissenschaft*, 9(??): 201–212, October 1943. According to [Ros98, pages 269–270] and [Wal89b, page 74], this article was written three years earlier, in 1940, but was delayed until Heisenberg had received Heinrich Himmler's letter of protection. It is Heisenberg's response to the "deutsche Physik" campaign to suppress Jews in science, and Jewish contributions to physics. See also [Cas09, page 338] for more about this article.

Heisenberg:1943:EAG

[Hei43l] Werner Heisenberg. Die Energiegewinnung aus der Atomkernspaltung. (German) [The energy production from nuclear fission]. Kernphysikalische Forschungsberichte G-217, Uranverein, Kaiser Wilhelm Institut für Physik in Berlin-Dahlem, Berlin, Germany, May 6, 1943. 6 pp.

Heisenberg:1943:BGTa

[Hei43m] Werner Heisenberg. Die ,,beobachtbaren Größen"in der Theorie der Elementarteilchen. (German) ['Observable quantities' in the theory of elementary particles]. *Zeitschrift für Physik*, 120(7–10):513–538, July 1943. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01329800`; `http://www.springerlink.com/content/jm3516j05614784j/`. English translation in [Hei62k]. Reprinted in [BDR84a, pages 611–636].

Heisenberg:1943:PAG

[Hei43n] Werner Heisenberg. *Die Physik der Atomkerne. (German) [Physics of the atomic nucleus].* Friedrich Vieweg und Sohn, Braunschweig, Germany, 1943. 180 pp. LCCN ????

Heisenberg:1943:EUJ

[Hei43o] Werner Heisenberg. Einleitung. 1. Übersicht über den jetzigen Stand unserer Kenntnisse von der kosmischen Strahlung. (German) [Introduction. 1. Present state of our knowledge of cosmic radiation]. In *Kosmische Strahlung: Vorträge gehalten im Max Planck-Institut, Berlin-Dahlem. (German) [Cosmic radiation: Lectures held in the Max Planck Institute, Berlin-Dahlem]* [Hei43p], pages 1–10. LCCN ???? Lectures in honor of Arnold Sommerfeld. With contributions by Erich Bagge, Fritz Bopp, Siegfried Flügge, Werner Heisenberg, A. Klemm, J. Meixner, G. Molière, H. Volz, Carl Friedrich von Weizsäcker, and Karl Wirtz. English translation in [Hei46a].

Heisenberg:1943:KSV

[Hei43p] Werner Heisenberg, editor. *Kosmische Strahlung: Vorträge gehalten im Max Planck-Institut, Berlin-Dahlem. (German) [Cosmic radiation: Lectures held in the Max Planck Institute, Berlin-Dahlem].* Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1943. vi + 173 pp. LCCN ???? Lectures in honor of Arnold Sommerfeld. With contributions by Erich Bagge, Fritz Bopp, Siegfried Flügge, Werner Heisenberg, A. Klemm, J. Meixner, G. Molière, H. Volz, Carl Friedrich von Weizsäcker, and Karl Wirtz. English translation in [Hei46a].

Heisenberg:1943:MP

[Hei43q] Werner Heisenberg. [Max Planck]. *Völkischer Beobachter*, ??(??): ??, March 1943. Incompletely cited in [Cas09, page 339, 450].

Heisenberg:1943:VKS

[Hei43r] Werner Heisenberg. *Vorträge über kosmische Strahlung: Arnold Sommerfeld zu seinem 75. Geburtstag am 5. Dezember 1943 gewidmet. (German) [Lectures on cosmic rays: dedicated to Arnold Sommerfeld on his 75th birthday on 5 December 1943].* Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1943. vi + 173 pp.

Heisenberg:1943:VGF

[Hei43s] Werner Heisenberg. Vorwort. (German) [Foreword]. In *Kosmische Strahlung: Vorträge gehalten im Max Planck-Institut, Berlin-Dahlem. (German) [Cosmic radiation: Lectures held in the Max Planck Institute, Berlin-Dahlem]* [Hei43p], pages v–vi. LCCN ???? Lectures in honor of Arnold Sommerfeld. With contributions by Erich Bagge, Fritz Bopp, Siegfried Flügge, Werner Heisenberg, A. Klemm, J. Meixner, G. Molière, H. Volz, Carl Friedrich von Weizsäcker, and Karl Wirtz. English translation in [Hei46a].

Heisenberg:1943:WGN

[Hei43t] Werner Heisenberg. *Wandlungen in den Grundlagen der Naturwissenschaft. (German) [Changes in the fundamentals of natural science].* Hirzel, Leipzig, Germany, 1943. 93 pp. LCCN ????

Heisenberg:1943:ADH

[Hei43u] Werner Heisenberg. Zum Andenken an David Hilbert. (German) [In memory of David Hilbert]. *Physikalische Zeitschrift*, 44(??): 277–278, ???? 1943. CODEN PHZTAO. ISSN 0369-982X.

Heisenberg:1944:BGT

[Hei44a] Werner Heisenberg. Die ,,beobachtbaren Größen"in der Theorie der Elementarteilchen. III. (German) [The "observable variables" in the theory of elementary particles. III]. *Zeitschrift für Physik*, 123(1–2):93–112, March 1944. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01375146`; `http://www.springerlink.com/content/t33g3p1272652730/`. Part IV was not published in a journal, but was finally printed in [BDR89a, pages 687–698].

Heisenberg:1944:MLS

[Hei44b] Werner Heisenberg. Max von Laue. Zu seinem 65. Geburtstag. (German) [Max von Laue. On his 65th birthday]. *Deutsche Allgemeine Zeitung (Reichsausgabe)*, 273(??):2, October 6, 1944.

Heisenberg:1944:TAD

[Hei44c] Werner Heisenberg. Theoretische Auswertung der Dahlemer Grossversuche. (German) [Theoretical evaluation of the Dahlem large scale experiments]. Report G-220, Uranverein, Kaiser Wilhelm Institut für Physik in Berlin-Dahlem, Berlin, Germany, September 1944. 7 pp.

Heisenberg:1944:WGN

[Hei44d] Werner Heisenberg. *Wandlungen in den Grundlagen der Naturwissenschaft. (German) [Changes in the fundamentals of natural science]*. Hirzel, Leipzig, Germany, 1944. 95 pp. LCCN ????

Heisenberg:1945:PWG

[Hei45a] Werner Heisenberg. *Das Plancksche Wirkungsquantum. (German) [Planck's constant]*. Walter de Gruyter, New York, NY, USA and Berlin, Germany, 1945. 19 pp. LCCN ????

Heisenberg:1945:WGN

[Hei45b] Werner Heisenberg. *Wandlungen in den Grundlagen der Naturwissenschaft. (German) [Changes in the fundamentals of natural science]*. Hirzel, Leipzig, Germany, 1945. 95 pp. LCCN ????

Heisenberg:1946:CRL

[Hei46a] Werner Heisenberg, editor. *Cosmic Radiation. 15 Lectures*. Dover, New York, NY, USA, 1946. 192 pp. LCCN ???? English translation by T. H. Johnson of [Hei43p], in commemoration of the 75th birthday of Arnold Sommerfeld.

Heisenberg:1946:MRQ

[Hei46b] Werner Heisenberg. Der mathematische Rahmen der Quantentheorie der Wellenfelder. (German) [The mathematical framework of the quantum theory of wave fields]. *Zeitschrift für Naturforschung*, 1:608–622, 1946. CODEN ZNTFA2. ISSN 0372-9516.

Heisenberg:1946:UQG

[Hei46c] Werner Heisenberg. Der unanschauliche Quantensprung. (German) [The nonintuitive quantum leap]. *Neue Physikalische Blätter*, 2(??):4–6, ???? 1946.

Heisenberg:1946:ATA

[Hei46d] Werner Heisenberg. Über die Arbeiten zur Technischen Ausnutzung der Atomkernenergie in Deutschland. (German) [On the work toward the technical use of atomic energy in Germany]. *Naturwissenschaften*, 33(11):325–329, ???? 1946. CODEN NATWAY. ISSN 0028-1042 (print), 1432-1904 (electronic). URL `http://www.springerlink.com/content/j0m0u5j553402765`. English translation in [Hei47g].

Heisenberg:1946:WMV

[Hei46e] Werner Heisenberg. Wissenschaft als Mittel zur Verständigung unter den Völkern. (German) [Science as a way of understanding among peoples]. *Deutsche Beiträge*, 1(??):164–174, ???? 1946. English translation in [Hei52m].

Heisenberg:1946:ESG

[Hei46f] Werner Heisenberg. Zur Elektronentheorie der Supraleitung. (German) [On the electron theory of superconductivity]. *Neue Physikalische Blätter*, 2(??):220, ???? 1946.

Heisenberg:1947:APO

[Hei47a] Werner Heisenberg. Die aktive und die passive Opposition im Dritten Reich. (German) [Active and passive opposition in the Third Reich]. Unpublished paper in Heisenberg Archives in Munich, cited in [Cas09, page 220, 437]., November 12, 1947.

Heisenberg:1947:PAG

[Hei47b] Werner Heisenberg. *Die Physik der Atomkerne. (German) [Physics of the atomic nucleus].* Friedrich Vieweg und Sohn, Braunschweig, Germany, 1947. vi + 180 pp. LCCN ???? Elaborated by W. Westphal and Dr. Jorges. The third edition is reproduced in the Collected Works.

Heisenberg:1947:UEK

[Hei47c] Werner Heisenberg. Die Übertragung elektromagnetischer Kräfte im Supraleiter. (German) [The transfer of electromagnetic forces in the superconductor]. *Nachrichten der Akademie der Wissenschaften in Göttingen, Math.-Phys. Klasse*, ??(??):23–26, ???? 1947.

Heisenberg:1947:MP

[Hei47d] Werner Heisenberg. Max Planck. *Göttinger Universitäts-Zeitung*, 2(10):6, ???? 1947.

Heisenberg:1947:MPN

[Hei47e] Werner Heisenberg. Max Planck [Nachruf]. (German) [Max Planck [obituary]]. *Göttinger Universitäts-Zeitung*, 2(21):1–2, ???? 1947.

Heisenberg:1947:QWV

[Hei47f] Werner Heisenberg. *Quantentheorie der Wellenfelder: Vorlesung von Prof. Heisenberg, Winter 1946/47. (German) [Quantum the-*

ory of wave fields: lecture of Prof. Heisenberg, Winter 1946/47]. Max-Planck-Institut für Physik, Göttingen, West Germany, 1947. ???? pp. LCCN ???? Elaborated by K. Wildermuth.

Heisenberg:1947:RGTa

[Hei47g] Werner Heisenberg. Research in Germany on the technical application of atomic energy. *Nature*, 160(4059):211–215, August 16, 1947. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic). URL `http://www.nature.com/nature/journal/v160/n4059/pdf/160211a0.pdf`. Abridged translation of German original [Hei46d]. See also [Hei53m, Hei53n], and response [Gou47c].

Heisenberg:1947:RGTb

[Hei47h] Werner Heisenberg. Research in Germany on the technical application of atomic energy. *Chemical and Engineering News*, 1947 (25):2620–2621, September 15, 1947. CODEN CENEAR. ISSN 0009-2347 (print), 1520-605X (electronic). URL `http://pubs.acs.org/doi/pdf/10.1021/cen-v025n037.p2620`.

Heisenberg:1947:WGN

[Hei47i] Werner Heisenberg. *Wandlungen in den Grundlagen der Naturwissenschaft. (German) [Changes in the fundamentals of natural science]*. Hirzel, Leipzig, Germany, 1947. 98 pp. LCCN ????

Heisenberg:1947:TSGa

[Hei47j] Werner Heisenberg. Zur Theorie der Supraleitung. (German) [On the theory of superconductivity]. *Zeitschrift für Naturforschung*, 2a(4):185–201, ???? 1947. CODEN ZNTFA2. ISSN 0372-9516.

Heisenberg:1947:TSGb

[Hei47k] Werner Heisenberg. Zur Theorie der Supraleitung. (German) [On the theory of superconductivity]. *Forsch. Fortschr.*, 21–23(??): 243–244, ???? 1947.

Heisenberg:1947:TSGc

[Hei47l] Werner Heisenberg. Zur Theorie der Supraleitung. (German) [On the theory of superconductivity]. *Angewandte Chemie*, 59(2):59, February 1947. CODEN ANCEAD. ISSN 0044-8249 (print), 1521-3757 (electronic).

Heisenberg:1948:ASD

[Hei48a] Werner Heisenberg. Arnold Sommerfeld zum 5. Dezember 1948. (German) [Arnold Sommerfeld to 5th December 1948]. *Zeitschrift*

für Naturforschung, 3a(??):429, ???? 1948. CODEN ZNTFA2. ISSN 0372-9516.

Heisenberg:1948:BTG

[Hei48b] Werner Heisenberg. Bemerkungen zum Turbulenzproblem. (German) [Remarks on the turbulence problem]. *Zeitschrift für Naturforschung*, 3a(??):434–437, ???? 1948. CODEN ZNTFA2. ISSN 0372-9516.

Heisenberg:1948:EVS

[Hei48c] Werner Heisenberg. Das elektrodynamische Verhalten der Supraleiter. (German) [The electrodynamic behavior of superconductors]. *Zeitschrift für Naturforschung*, 3a(??):65–75, ???? 1948. CODEN ZNTFA2. ISSN 0372-9516.

Heisenberg:1948:BGA

[Hei48d] Werner Heisenberg. Der Begriff ,,Abgeschlossene Theorie"in der modernen Naturwissenschaft. (German) [The notion of a "closed theory" in modern science]. *Dialectica: International Review of Philosophy of Knowledge*, 2(3–4):331–336, November 1948. CODEN ???? ISSN 0012-2017 (print), 1746-8361 (electronic). English translation in [Hei74i].

Heisenberg:1948:BAT

[Hei48e] Werner Heisenberg. Der Begriff ,,Abgeschlossene Theorie"in der modernen Naturwissenschaft. (German) [The notion of a "closed theory" in modern science]. *Dialectica: International Review of Philosophy of Knowledge*, 2(3–4):331–336, November 1948. CODEN ???? ISSN 0012-2017 (print), 1746-8361 (electronic). English translation in [Hei74i].

Heisenberg:1948:SN

[Hei48f] Werner Heisenberg. Die Sorge um die Naturwissenschaft. *Göttinger Universitäts-Zeitung*, 3(??):7, January 16, 1948.

Heisenberg:1948:GND

[Hei48g] Werner Heisenberg. Es gab niemals eine deutsche Atombombe. (German) [There never was a German atomic bomb]. *Schwäbische Donauzeitung*, ??(??):3, August 2, 1948.

Heisenberg:1948:LBV

[Hei48h] Werner Heisenberg. [Letter to B. L. van der Waerden]. Cassidy [Cas09, page 314] writes of this letter "Heisenberg himself seems to

suggest another purpose for his visit [to Niels Bohr in Copenhagen] ... Heisenberg implied that he was attempting to stave off an Allied crash program on nuclear fission research.", April 28, 1948.

Heisenberg:1948:NSI

[Hei48i] Werner Heisenberg. Nazis spumed idea of an atomic bomb (interview). *New York Times*, ??(??):10, December 28, 1948. CODEN NYTIAO. ISSN 0362-4331 (print), 1542-667X, 1553-8095.

Heisenberg:1948:TSI

[Hei48j] Werner Heisenberg. On the theory of statistical and isotropic turbulence. *Proceedings of the Royal Society of London. Series A, Mathematical and physical sciences*, 195:402–406, 1948. CODEN PRLAAZ. ISSN 0080-4630.

Heisenberg:1948:TBP

[Hei48k] Werner Heisenberg. Thermodynamische Betrachtungen zum Problem der Supraleitung. (German) [Thermodynamical considerations in the problem of superconductivity]. *Annalen der Physik (1900)*, 438(1):289–296, 1948. ISSN 1521-3889.

Heisenberg:1948:WWW

[Hei48l] Werner Heisenberg. Wer weiß, was wichtig wird. Die Notwendigkeit wissenschaftlicher Forschung. (German) [Who knows what is important? The need for scientific research]. *Die Welt*, 143(??):3, December 9, 1948.

Heisenberg:1948:WHA

[Hei48m] Werner Heisenberg. Werner Heisenberg (autobiographical note). In ????, editor, *Der Geist weht wo er will. Kalender für das Jahr 1949*. Zero-Verlag, Ulm, West Germany, 1948. 10. Woche [10th week].

Heisenberg:1948:STT

[Hei48n] Werner Heisenberg. Zur statistischen Theorie der Turbulenz. (German) [On the statistical theory of turbulence]. *Zeitschrift für Physik*, 124(7–12):628–657, July 1948. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01668899`; `http://www.springerlink.com/content/p225013t42156018/`. English translation in [Hei58q].

Heisenberg:1949:AEJ

[Hei49a] Werner Heisenberg. Albert Einstein 70 Jahre alt. (German) [Albert Einstein 70 years old]. *Welt am Sonntag*, 11(??):5, March 13, 1949.

Heisenberg:1949:ALM

[Hei49b] Werner Heisenberg. Die Auswirkungen des Lebenswerkes Max Plancks. (German) [The impact of the life work of Max Planck]. *Angewandte Chemie*, 61(4):115–117, 1949. CODEN ANCEAD. ISSN 0044-8249 (print), 1521-3757 (electronic).

Heisenberg:1949:EFG

[Hei49c] Werner Heisenberg. Die Einheit der Forschung. (German) [The unity of research]. *Deutsche Zeitung und Wirtschaftszeitung*, 103 (??):4, December 24, 1949. Reprinted in [Hei53f].

Heisenberg:1949:EMVb

[Hei49d] Werner Heisenberg. Die Erzeugung von Mesonen in Vielfachprozessen. (German) [The production of mesons in multiple processes]. *Il Nuovo Cimento (9)*, 6 (supplement)(??):493–497, 503–508, ???? 1949. CODEN NUCIAD. ISSN 0029-6341 (print), 1827-6121 (electronic).

Heisenberg:1949:GGA

[Hei49e] Werner Heisenberg. Die gegenwartigen Grundprobleme der Atomphysik. (German) [Fundamental problems of present-day atomic physics]. In *Wandlungen in den Grundlagen der Naturwissenschaft. (German) [Changes in the fundamentals of natural science]* [Hei49l], pages 89–101. LCCN ????

Heisenberg:1949:GAR

[Hei49f] Werner Heisenberg. German atom research: Appraisal of progress said to await release of reports. *New York Times*, ??(??):8E–8E, January 30, 1949. CODEN NYTIAO. ISSN 0362-4331 (print), 1542-667X, 1553-8095. URL `http://search.proquest.com/hnpnewyorktimes/docview/105774675/`. Section 4.

Heisenberg:1949:MFF

[Hei49g] Werner Heisenberg. Mehr Fürsorge für die Forschung. Eine Denkschrift des Deutschen Forschungsrates. (German) [More care for research. A memorandum by the German Research Council]. *Deutsche Zeitung und Wirtschaftszeitung*, 75(??):5–10, September 17, 1949. Reprinted in [Hei53d].

Heisenberg:1949:NHB

[Hei49h] Werner Heisenberg. Naturwissenschaft und humanistische Bildung. (German) [Science and education in the humanities]. In H. Scharold, editor, *100 Jahre Maximilians-Gymnasium, em Beitrag zur Geschichte des Gymnasiums in Bayern. (German) [Centennial of the Maximilians-Gymnasium, a contribution to the history of Bavarian high schools]*, pages 153–164. ????, Munich, West Germany, 1949. LCCN ????

Heisenberg:1949:PMS

[Hei49i] Werner Heisenberg. Production of meson showers. *Nature*, 164 (4158):65–66, July 9, 1949. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic). URL `http://www.nature.com/nature/journal/v164/n4158/pdf/164065c0.pdf`.

Heisenberg:1949:TL

[Hei49j] Werner Heisenberg. *Two Lectures*. Cambridge University Press, Cambridge, UK, 1949. 52 pp. LCCN ????

Heisenberg:1949:EMVa

[Hei49k] Werner Heisenberg. Über die Entstehung von Mesonen in Vielfachprozessen. (German) [On the origin of mesons in multiple processes]. *Zeitschrift für Physik*, 126(6):569–582, July 1949. CODEN ZEPYAA. ISSN 0939-7922 (print), 1431-5831 (electronic). URL `http://link.springer.com/article/10.1007/BF01330108`; `http://www.springerlink.com/content/u861415312633617/`.

Heisenberg:1949:WGN

[Hei49l] Werner Heisenberg. *Wandlungen in den Grundlagen der Naturwissenschaft. (German) [Changes in the fundamentals of natural science]*. Hirzel, Leipzig, East Germany, 1949. 112 pp. LCCN ????

Heisenberg:1950:BBL

[Hei50a] Werner Heisenberg. Besprechung: *Theorie und Losungsmethoden des Mehrteilchen problems der Wellenmechanik*, von P. Gombás. (German) [Book review: *Theory and solution methods of many-particle problems of wave mechanics*]. *Umschau*, 50(??):550, ???? 1950.

Heisenberg:1950:BWK

[Hei50b] Werner Heisenberg. Besprechung: Wilhelm Kamlah: *Der Mensch in der Profanität*. (German) [Book review: Wilhelm Kamlah: *Man*

in profanity]. *Naturwissenschaften*, 37(??):311, ???? 1950. CODEN NATWAY. ISSN 0028-1042 (print), 1432-1904 (electronic).

Heisenberg:1950:DFI

[Hei50c] Werner Heisenberg. Der deutsche Forschungsrat (Interview). (German) [The German Research Council (interview)]. *Physikalische Blätter*, 6(4):170–172, April 1950. CODEN PHBLAG. ISSN 0031-9279 (print), 1521-3722 (electronic). URL `http://onlinelibrary.wiley.com/doi/10.1002/phbl.19500060405/abstract`.

Heisenberg:1950:DWG

[Hei50d] Werner Heisenberg. Die Not der deutschen Wissenschaft. (German) [The plight of German science]. *Die Tat*, 230(??):30, August 15, 1950.

Heisenberg:1950:AUI

[Hei50e] Werner Heisenberg. Für die Atombombe unzuständig (Interview). (German) [Jurisdiction for the atomic bomb [????] (interview)]. *Die Welt*, 28(??):2, February 2, 1950.

Heisenberg:1950:PPQ

[Hei50f] Werner Heisenberg. *The physical principles of the quantum theory*. Dover, New York, NY, USA, 1950. ISBN 0-486-60113-7. 183 pp. LCCN QC174.1 .H4 1950. Translated into English by Carl Eckart and Frank C. Hoyt.

Heisenberg:1950:SPD

[Hei50g] Werner Heisenberg. Schlußwort des Präsidenten des Deutschen Forschungsrates. (German) [Closing remarks by the President of the German Research Council]. In ????, editor, *Vom Geist der Deutschen Wissenschaft. Ansprachen und Vortrage. (German) [The Spirit of German Science. Speeches and Lectures]*, pages 45–47. Franz Steiner Verlag, Wiesbaden, West Germany, 1950. Reprinted in [Hei53q].

Heisenberg:1950:SZR

[Hei50h] Werner Heisenberg. Stationäre Zustände in der relativistischen Quantentheorie der Wellenfelder. (German) [Stationary states in the relativistic quantum theory of wave fields]. *Zeitschrift für Naturforschung*, 5a:367–373, 1950. CODEN ZNTFA2. ISSN 0372-9516.

Heisenberg:1950:YTN

[Hei50i] Werner Heisenberg. The Yukawa theory of nuclear forces in the light of present quantum theory of wave fields. *Progress of Theoretical Physics*, 5(4):523–525, July/August 1950. CODEN PTPKAV. ISSN 0033-068X (print), 1347-4081 (electronic).

Heisenberg:1950:QEG

[Hei50j] Werner Heisenberg. Zur Quantentheorie der Elementarteilchen. (German) [On the quantum theory of elementary particles]. *Zeitschrift für Naturforschung*, 5a:251–259, 1950. CODEN ZNTFA2. ISSN 0372-9516.

Heisenberg:1951:JQG

[Hei51a] Werner Heisenberg. 50 Jahre Quantentheorie. (German) [50 years of quantum theory]. *Naturwissenschaften*, 38(3):49–55, ???? 1951. CODEN NATWAY. ISSN 0028-1042 (print), 1432-1904 (electronic). URL `http://www.springerlink.com/content/k1t4655274v37550`.

Heisenberg:1951:AS

[Hei51b] Werner Heisenberg. Arnold Sommerfeld. *Naturwissenschaften*, 38 (??):337–338, ???? 1951. CODEN NATWAY. ISSN 0028-1042 (print), 1432-1904 (electronic).

Heisenberg:1951:ASN

[Hei51c] Werner Heisenberg. Arnold Sommerfeld [Nachruf]. (German) [Arnold Sommerfeld [obituary]]. *Naturwissenschaften*, 38(15):337–338, ???? 1951. CODEN NATWAY. ISSN 0028-1042 (print), 1432-1904 (electronic). URL `http://www.springerlink.com/content/r02343hv28210677`.

Heisenberg:1951:RWI

[Hei51d] Werner Heisenberg. Die Rolle der Wissenschaft im öffentlichen Leben. (German) [The role of science in public life]. *Deutsche Universitätszeitung*, 6(12):15–16, June 29, 1951.

Heisenberg:1951:DFN

[Hei51e] Werner Heisenberg. Hat Deutschlands Forschung noch eine Chance? (Interview with A. Pullmann). (German) [Does Germany's research have a chance? (Interview with A. Pullman)]. *Göttinger Tageblatt*, 265(??):??, November 10, 1951.

Heisenberg:1951:KSA

[Hei51f] Werner Heisenberg. Kosmische Strahlungen und Atomphysik. (German) [Cosmic rays and atomic physics]. In ????, editor, *Jahresbericht 1951 der Max-Planck-Gesellschaft zur Forderung der Wissenschaften e.V.. (German) [Annual Report for 1951 of the Max Planck Society for the Needs of Sciences e.V.]*, pages 229–236. Max-Planck-Gesellschaft, Göttingen, West Germany, 1951.

Heisenberg:1951:STF

[Hei51g] Werner Heisenberg. On stability and turbulence of fluid flows. Techical Memo 1291, National Commission for Aeronautics, Washington, DC, USA, 1951. 60 pp. English translation of Heisenberg's doctoral dissertation [Hei24e].

Heisenberg:1951:MFT

[Hei51h] Werner Heisenberg. On the mathematical frame of the theory of elementary particles. *Communications on Pure and Applied Mathematics (New York)*, 4(1):15–22, 1951. CODEN CPAMAT, CPMAMV. ISSN 0010-3640 (print), 1097-0312 (electronic).

Heisenberg:1951:PZT

[Hei51i] Werner Heisenberg. Paradoxien des Zeitbegriffs in der Theorie der Elementarteilchen. (German) [Paradoxes of the time concept in the theory of elementary particles]. In *Festschrift zur Feier des zweihundertjährigen Bestehens der Akademie der Wissenschaften in Göttingen. I. Math.-Phys. Kl. (German) [Festschrift in honor of the bicentennial anniversary of the Academy of Sciences in Goettingen. I. Math Phys. kl]*, pages 50–64. Springer-Verlag, Berlin, Germany / Heidelberg, Germany / London, UK / etc., 1951.

Heisenberg:1951:TAG

[Hei51j] Werner Heisenberg. *Theorie des Atomkerns. (German) [Theory of the atomic nucleus]*. Max-Planck-Institut für Physik, Göttingen, West Germany, 1951. 162 pp. LCCN ????

Heisenberg:1951:TAV

[Hei51k] Werner Heisenberg. *Theorie des Atomkerns. Vorlesung von W. Heisenberg im Sommer 1950. (German) [Theory of the atomic nucleus. Lecturees of W. Heisenberg, Summer 1950]*. Max-Planck-Institut für Physik, Göttingen, West Germany, 1951. ???? pp. LCCN ???? Elaborated by W. Macke.

Heisenberg:1951:VUT

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