A Selected Bibliography of Publications by, and about, Enrico Fermi

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA

Tel: +1 801 581 5254

E-mail: beebe@math.utah.edu, beebe@acm.org,
beebe@computer.org (Internet)
WWW URL: https://www.math.utah.edu/~beebe/

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+ [AFRW42, FF48]. $-1/2$ [CT67]. $1/2$ [CT67]. **$13.95** [Ano96b, Ano95b]. **$14.95** [Ano95c]. **$17.50** [Bro68]. $1s$ [FA34]. **$21.00** [Gol99a]. **$29.99** [Seg15]. **$3.50** [Gra61]. $3/2$ [CT67]. **$30.00** [Wes16]. $4/3$ [BGJR24, Boc15]. **$49.95** [Stu06]. $4d$ [Fer29g, Fer30k]. **$50** [Ano62, G.64]. **$6.95** [Bro73c]. 93^{237} [WS48]. ^{237} [ML48]. ^{239} [SP48]. ^{o} [Mon66]. $_{93}$ [ML48]. α [OVPL15]. β [Fer33b, FBE+34, Fer34n, Fer34o, HS19, Yan13b]. $F_{1/2}(x)$ [WR63]. f_t [Fer42d]. $\gg$ [Bas01, For01]. h/k [FR27b, FR27a]. k [Fer42c, Fer42s]. $\ll$ [Bas01, For01]. ν [FMM45]. p [FS34a, FS34b]. s [Fer28e, Fer28g].

-Decay [Yan13b, FBE+34]. **-Fermi** [OVPL15]. **-rays** [FS34a, FS34b, Fer34o]. **-Strahlen** [Fer34o]. **-Terme** [Fer28e, Fer28e]. **-Terms** [Fer28g]. **-Value** [FMM45].

/2nd [KGSO55]. **/FA** [KGSO55]. **/The** [KGSO55].

GA74b, Gro67a, Gro67b, Her79, Kra15, Lan01, LW71, Mac86, Mac87, Pur63, SH16, SR92, Tho27, TSH$^+$19, Van03, Ano67c, Ban04, Buc83, Kie13, Lau46b]. **Atomic** [Ste59, Sei90]. **Atomica** [Fer28c, Fer50a, Bru11, Fer30b]. **atomici** [Fer30h]. **atomico** [FRD34]. **atomique** [Fer32a, Gol80, Mon66]. **atomiques** [CCJ$^+$34]. **Atomkerne** [Flü39, Fer30p]. **Atomreaktor** [Lan01]. **Atoms** [DE04, Fer25d, Fer26c, Fer28b, Fer54k, Fer57b, Fer82c, Fer87, LS77, Rut20, Sol03, Fer24g, Fer25f, Fer01, Lie81, Lie82, Mar75, Som33, Spr91, Fer30a, Man57, Som32a, Ano95b, Cam54, Fri55b]. **Attempt** [Fer33b, Fer34o]. **Attention** [Ken54]. **attuale** [Fer29d, Fer32c]. **attuali** [Fer29e]. **audience** [Ano12b]. **auspices** [CCJ$^+$34, Smy45b]. **Austrittsvorgänge** [Som28a]. **autobiography** [Seg93]. **autoionization** [ACM10]. **automata** [Str98]. **aux** [Seg84]. **available** [Flü39]. **Avvengono** [Fer22c]. **avventurosa** [Tur08]. **Award** [Ano61, Ano67b, Ano68b, Ano90, Ano09b, G.64, Wal64a, Ano58, Ano59, Ano62, Ano63a, Ano63b, Ano65a, Ano66, Ano68c, Ano73, Ano79, Ano81, Ano93b, Ano94b, Ano96a, Bet63, Hol90a, WB64, Wig62]. **Awarded** [Ano50b]. **Awarding** [KGSO55]. **Awards** [Bar87]. **Azione** [FR33b, FR33c, FAP$^+$34, FPR34a, FR38].

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[AFR37] Edoardo Amaldi, Enrico Fermi, and Franco Rasetti. Un generatore artificiale di neutroni. (Italian) [An artificial generator of

neutrons]. *La Ricerca Scientifica*, 8(2):40–43, ???? 1937. CODEN RISCAZ. ISSN 0035-5011.

Amaldi:1934:NRP

[AFRS34] Edoardo Amaldi, Enrico Fermi, Franco Rasetti, and Emilio Segrè. Nuovi radioelementi prodotti con bombardamento di neutroni. (Italian) [New radioelements produced with neutron bombardment]. *Il Nuovo Cimento (8)*, 11(7):442–447, ???? 1934. CODEN NUCIAD. ISSN 0029-6341 (print), 1827-6121 (electronic). URL `http://www.springerlink.com/content/g14637jq4r7r54g8/`.

Anderson:1942:NNE

[AFRW42] Herbert L. Anderson, Enrico Fermi, J. H. Roberts, and M. D. Whitaker. The number of neutrons emitted by a Ra + Be source (source I). Report C-21 (MDDC-880), US Atomic Energy Commission, Washington, DC, USA, March 21, 1942.

Anderson:1939:NPA

[AFS39] Herbert L. Anderson, Enrico Fermi, and Leo Szilard. Neutron production and absorption in uranium. *Physical Review*, 56(3):284–286, August 1, 1939. CODEN PHRVAO. ISSN 0031-899X (print), 1536-6065 (electronic). URL `http://adsabs.harvard.edu/abs/1939PhRv...56..284A`; `http://prola.aps.org/abstract/PR/v56/i3/p284_1`.

Anderson:1942:ACSa

[AFW42] Herbert L. Anderson, Enrico Fermi, and George L. Weil. Absorption cross-sections for Rn plus Be fast neutrons. Report C-72, US Atomic Energy Commission, Washington, DC, USA, 1942. Undated: year chosen according to report number.

Anderson:1947:MMN

[AFW+47] Herbert L. Anderson, Enrico Fermi, A. Wattenberg, George L. Weil, and Walter H. Zinn. Method for measuring neutron-absorption cross sections by the effect on the reactivity of a chain-reacting pile. *Physical Review*, 72(1):16–23, July 1, 1947. CODEN PHRVAO. ISSN 0031-899X (print), 1536-6065 (electronic). URL `http://prola.aps.org/abstract/PR/v72/i1/p16_1`.

Anderson:1957:MMN

[AFW+57] Herbert L. Anderson, Enrico Fermi, Albedo Wattenberg, George L. Weil, and Walter H. Zinn. Method for measuring

neutron-absorption cross sections by the effect on the reactivity of a chain-reacting pile. *Physical Review*, 72(1):16–23, July 1957. CODEN PHRVAO. ISSN 0031-899X (print), 1536-6065 (electronic). URL `http://prola.aps.org/abstract/PR/v72/i1/p16_1`.

Albarracin:2014:DPS

[AG14] Lluís Albarracín and Núria Gorgorió. Devising a plan to solve Fermi problems involving large numbers. *Educational Studies in Mathematics*, 86(1):79–96, May 2014. CODEN EDSMAN. ISSN 0013-1954 (print), 1573-0816 (electronic). URL `http://link.springer.com/accesspage/article/10.1007/s10649-013-9528-9`.

Agnew:1982:EI

[Agn82] Harold M. Agnew. Early impressions. *Bulletin of the Atomic Scientists*, 38(10):20–21, December 1982. CODEN BASIAP. ISSN 0096-3402 (print), 1938-3282 (electronic). See erratum [Ano83] that corrects the photo caption: it shows the first nuclear pile after reassembly at Argonne National Laboratory, *not* the original pile at Stagg Field.

Agnew:2003:DFL

[Agn03] Harold Agnew. Documents on Fermi's life. In Anonymous [Ano03], pages 289–294. ISBN 88-8286-032-9. LCCN ???? URL `http:old.enea.it/produzione_scientifica/pdf../V2003_AttiFermi.pdf`.

Agnew:2004:FCA

[Agn04] Harold Agnew. Fermi at Columbia, Los Alamos, and Chicago. In Orear [Ore04], chapter 21, pages 101–106. ISBN ???? LCCN ???? URL `http://dspace.library.cornell.edu/handle/1813/62; http://hdl.handle.net/1813/74`.

Acocella:2004:EFD

[AGR04] Giovanni Acocella, Francesco Guerra, and Nadia Robotti. Enrico Fermi's discovery of neutron-induced artificial radioactivity: The recovery of his first laboratory notebook. *Physics in Perspective (PIP)*, 6(1):29–41, April 2004. CODEN PHPEF2. ISSN 1422-6944 (print), 1422-6960 (electronic). URL `http://www.springerlink.com/content/5qgmvqy95d3t33ma/`.

Al-Khalili:2016:ASA

[AK16] Jim Al-Khalili, editor. *Aliens: Science Asks: Is There Anyone Out There?* Profile Books, London, UK, 2016. ISBN 1-78125-681-0 (paperback), 1-78283-271-8 (e-book). 148 pp. LCCN QB54 .A45 2016.

Al-Khalili:2017:AWL

[AK17] Jim Al-Khalili, editor. *Aliens: the world's leading scientists on the search for extraterrestrial life*. Picador, New York, NY, USA, 2017. ISBN 1-250-10963-9 (hardcover), 1-250-10965-5. 232 pp. LCCN QB54 .A395 2017.

Allison:1957:EF

[All57] Samuel K. Allison. Enrico Fermi 1901–1954. *Biographical memoirs — National Academy of Sciences of the United States of America*, 30(6):123–155, ???? 1957. CODEN BMNSAC. ISSN 0077-2933. URL `http://books.nap.edu/html/biomems/efermi.pdf; http://lccn.loc.gov/57002459`.

Allison:1962:BRC

[All62a] Samuel K. Allison. Book review: *The Collected Papers of Enrico Fermi. vol. 1. Italy, 1921–1938* by Enrico Fermi and Emilo Segrè. *American Scientist*, 50(4):424A–424A, ???? 1962. CODEN AMSCAC. ISSN 0003-0996 (print), 1545-2786 (electronic). URL `http://www.jstor.org/stable/27838557`. See [Fer62a].

Allison:1962:ICR

[All62b] Samuel K. Allison. Initiation of the chain reaction: The search for pure materials. *International Atomic Energy Agency Bulletin*, 4(0):12–14, ???? 1962. CODEN IAEBAB. ISSN 0020-6067 (print), 1564-2690 (electronic). URL `http://en.wikipedia.org/wiki/Atlas_Uranium_Mill; http://en.wikipedia.org/wiki/Moab,_Utah; http://en.wikipedia.org/wiki/Moab_Tailings; http://www.iaea.org/Publications/Magazines/Bulletin/Bull040su/04004701214su.pdf`.

Allibone:1963:IEF

[All63] T. E. Allibone. Inspirations of Enrico Fermi. *Nature*, 200(4910):961–962, December 7, 1963. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic). URL `http://www.nature.com/nature/journal/v200/n4910/pdf/200961a0.pdf`.

Alpher:2023:GGR

[AM23] Victor S. Alpher and Simon A. Mitton. George Gamow and Ralph Alpher: a review of their cosmological collaboration as mentor and protégé 1942–1955. *European Physical Journal H*, 48(1):??, December 2023. CODEN EPJHAD. ISSN 2102-6459 (print), 2102-6467 (electronic). URL `https://link.springer.com/article/10.1140/epjh/s13129-023-00057-0`.

Amaldi:1956:GPO

[Ama56] Edoardo Amaldi. George Placzek [obituary]. *La Ricerca Scientifica*, 26(??):2038–??, ???? 1956. CODEN RISCAZ. ISSN 0035-5011. Placzek had worked closely with Fermi's group in Rome, especially on experiments on the Raman effect; see [Seg70b, page 60].

Amaldi:1959:FMF

[Ama59] Edoardo Amaldi. The Fermi manuscripts at the ≪Domus Galiaeana≫. *Physis: Rivista Internazionale di Storia della Scienza*, 1(2):69–72, 1959. CODEN PYSSA3. ISSN 0031-9414 (print), 2038-6265 (electronic).

Amaldi:1961:MAI

[Ama61] Ginestra (Giovene) Amaldi. *Materia e antimateria. (Italian) [Matter and antimatter]*. A. Mondadori, Milano, Italy, 1961. 439 pp. LCCN ????

Amaldi:1966:NMP

[Ama66] Ginestra (Giovene) Amaldi. *The nature of matter: physical theory from Thales to modern times*. Allen and Unwin, London, UK, 1966. 332 pp. LCCN QC173 .A413.

Amaldi:1973:BRE

[Ama73] Edoardo Amaldi. Book review: *Enrico Fermi, Physicist*, by Emilio Segré. *Physics Today*, 26(6):58–60, July 1973. CODEN PHTOAD. ISSN 0031-9228 (print), 1945-0699 (electronic). URL `http://www.physicstoday.org/resource/1/phtoad/v26/i6/p58_s1`.

Amaldi:1979:YR

[Ama79] Edoardo Amaldi. The years of reconstruction. In Schaerf and Amaldi [SA79], pages 379–461. ISBN 3-7186-0007-2. LCCN QC770 .C748 1979.

Amaldi:1984:DND

[Ama84] Edoardo Amaldi. From the discovery of the neutron to the discovery of nuclear fission. *Physics Reports*, 111(1–4):1–331, September 1984. CODEN PRPLCM. ISSN 0370-1573 (print), 1873-6270 (electronic). URL `http://www.sciencedirect.com/science/article/pii/037015738490214X`.

Amaldi:1987:FDS

[Ama87] E. Amaldi. The Fermi–Dirac statistics and the statistics of nuclei. In García Doncel et al. [GHMP87], pages 253–277. ISBN 84-7488-148-X. LCCN QC174.17.S9 I57 1983.

Amaldi:2002:CDS

[Ama02a] Edoardo Amaldi. Commemorazione del socio Enrico Fermi. (Italian) [Commemoration of the associate Enrico Fermi]. In *Conoscere Fermi nel centenario della nascita: 29 settembre 1901–2001. (Italian) [Learn about Fermi in the centenary of his birth: 29 September 1901–2001]* [Ber02a], pages 23–36. ISBN 88-7438-000-3. LCCN QC774.F4. 10.33 EUR. URL `http://prometeo.sif.it:8080/libri/fermi/17.pdf`. English translation in [BB04b].

Amaldi:2002:FND

[Ama02b] Ugo Amaldi. La fisica dei nuclei dagli anni trenta ai giorni nostri. (Italian) [The physics of nuclei from the Thirties to the present day]. In *Conoscere Fermi nel centenario della nascita: 29 settembre 1901–2001. (Italian) [Learn about Fermi in the centenary of his birth: 29 September 1901–2001]* [Ber02a], pages 152–177. ISBN 88-7438-000-3. LCCN QC774.F4. 10.33 EUR. URL `http://prometeo.sif.it:8080/libri/fermi/10.pdf`. English translation in [BB04b].

Amaldi:2003:SNP

[Ama03] Ugo Amaldi. Slow neutrons at Via Panisperna: the discovery, the production of isotopes and the birth of nuclear medicine. In Anonymous [Ano03], pages 145–168. ISBN 88-8286-032-9. LCCN ???? URL `http:old.enea.it/produzione_scientifica/pdf../V2003_AttiFermi.pdf`.

Amati:2019:MEF

[AMS19] Graziano Amati, Hugues Meyer, and Tanja Schilling. Memory effects in the Fermi–Pasta–Ulam model. *Journal of Statistical*

Physics, 174(1):219–257, January 2019. CODEN JSTPSB. ISSN 0022-4715 (print), 1572-9613 (electronic).

Anderson:1933:PE

[And33] Carl D. Anderson. The positive electron. *Physical Review*, 43(6): 491–494, March 15, 1933. CODEN PHRVAO. ISSN 0031-899X (print), 1536-6065 (electronic). URL `http://prola.aps.org/abstract/PR/v43/i6/p491_1`. This paper reports the discovery of the positron, for which Anderson received the 1936 Nobel Prize in Physics.

Anderson:1955:MEE

[And55] Herbert L. Anderson. Meson experiments with Enrico Fermi. *Reviews of Modern Physics*, 27(3):269–272, July 1955. CODEN RMPHAT. ISSN 0034-6861 (print), 1538-4527 (electronic), 1539-0756. URL `http://link.aps.org/doi/10.1103/RevModPhys.27.269; http://rmp.aps.org/abstract/RMP/v27/i3/p269_1`.

Anderson:1973:TQA

[And73a] Herbert Anderson. Three questions about the sustained nuclear chain reaction. *The University of Chicago Magazine*, 65(5):3–7, March/April 1973. ISSN 0041-9508. URL `http://library.ucsd.edu/dc/object/bb3960604v`.

Anderson:1973:EDC

[And73b] Herbert L. Anderson. Early days of the chain reaction. *Bulletin of the Atomic Scientists*, 29(4):8–12, April 1973. CODEN BASIAP. ISSN 0096-3402 (print), 1938-3282 (electronic).

Anderson:1974:AOTb

[And74a] Herbert L. Anderson. "All in our time": Fermi, Szilard, and Trinity. *Bulletin of the Atomic Scientists*, 30(8):40–47, October 1974. CODEN BASIAP. ISSN 0096-3402 (print), 1938-3282 (electronic). See also part 1 [And74b].

Anderson:1974:AOTa

[And74b] Herbert L. Anderson. "All in our time": The legacy of Fermi and Szilard. *Bulletin of the Atomic Scientists*, 30(7):56–62, September 1974. CODEN BASIAP. ISSN 0096-3402 (print), 1938-3282 (electronic). Continued in [And74a].

Andrews:1999:QFB

[And99] Michael R. Andrews. Quantum fluids: Bose gases and their Fermi cousins. *Nature*, 398(6724):195–198, March 18, 1999. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic). URL `http://www.nature.com/nature/journal/v398/n6724/full/398195a0.html`.

Anonymous:1920:PBA

[Ano20] Anonymous. Physics at the British Association. *Nature*, 106 (2663):357–358, November 11, 1920. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic). URL `http://www.nature.com/nature/journal/v106/n2663/pdf/106357a0.pdf`. From this meeting report: "The results thus show that the elements may be considered as being composed of these hydrogen nuclei, or 'protons' as Sir Ernest Rutherford would have us call them, ..." It is believed that this is the first published mention of the word proton.

Anonymous:1934:DAE

[Ano34a] Anonymous. Dozen artificial elements. *New York Times*, ??(??): 25, June 5, 1934. CODEN NYTIAO. ISSN 0362-4331 (print), 1542-667X, 1553-8095. URL `https://search.proquest.com/hnpnewyorktimes/docview/101252432/`.

Anonymous:1934:FMS

[Ano34b] Anonymous. Fermi measures speed of neutron: Says it pierces atom nucleus in a thousand million million millionths of a second. New helium produced. Oliphant tells the Cambridge session of variety with atomic weight of 6. *New York Times*, ??(??):25, October 5, 1934. CODEN NYTIAO. ISSN 0362-4331 (print), 1542-667X, 1553-8095. URL `https://search.proquest.com/hnpnewyorktimes/docview/101010661/`.

Anonymous:1934:IPE

[Ano34c] Anonymous. Italian produces 93d element by bombarding uranium: Professor Enrico Fermi, academician, uses neutrons formed by decomposition of berylium under the action of alpha particles of radium. *New York Times*, ??(??):??, June 5, 1934. CODEN NYTIAO. ISSN 0362-4331 (print), 1542-667X, 1553-8095. URL `https://search.proquest.com/hnpnewyorktimes/docview/101250532/`.

Anonymous:1934:NEF

[Ano34d] Anonymous. New element found, has atomic count 93: Famous pitchblende deposits yield substance with higher number than uranium. (German) []. *New York Times*, ??(??):19, July 13, 1934. CODEN NYTIAO. ISSN 0362-4331 (print), 1542-667X, 1553-8095. URL `https://search.proquest.com/hnpnewyorktimes/docview/101123324/`.

Anonymous:1934:NHE

[Ano34e] Anonymous. New heavy element created [element 93: neptunium]. *The Times*, ??(??):??, June 4, 1934.

Anonymous:1934:SE

[Ano34f] Anonymous. Science: 93rd element? *Time*, ??(??):??, June 18, 1934. CODEN TYMEA9. ISSN 0040-781x (print), 2169-1665 (electronic). URL `http://www.time.com/time/magazine/article/0,9171,747508,00.html`. News story on the possible discovery of the first transuranic element, later known as neptunium (atomic symbol Np).

Anonymous:1938:PEF

[Ano38a] Anonymous. Prof. Enrico Fermi. *Nature*, 142(3603):906–907, November 19, 1938. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic). URL `http://www.nature.com/nature/journal/v142/n3603/pdf/142906c0.pdf`.

Anonymous:1938:SNM

[Ano38b] Anonymous. Science: Neutron man. *Time*, ??(??):??, November 21, 1938. CODEN TYMEA9. ISSN 0040-781x (print), 2169-1665 (electronic). URL `http://www.time.com/time/magazine/article/0,9171,760318,00.html`. News of the award of the 1938 Nobel Prize for Physics to Enrico Fermi.

Anonymous:1939:EFU

[Ano39a] Anonymous. 6 elements found in uranium atom: Physicists bare discovery of greatest amount of energy liberated thus far: Report widely hailed: Professors Bohr and Fermi, at Columbia meeting, tell of atomic 'cannon ball'. *New York Times*, ??(??): 17, February 25, 1939. CODEN NYTIAO. ISSN 0362-4331 (print), 1542-667X, 1553-8095. URL `http://search.proquest.com/hnpnewyorktimes/docview/102952660/`.

Anonymous:1939:AEF

[Ano39b] Anonymous. Atom explosion frees 200,000,000 volts; new physics phenomenon credited to Hahn. *New York Times*, ?? (??):2, January 29, 1939. CODEN NYTIAO. ISSN 0362-4331 (print), 1542-667X, 1553-8095. URL `http://search.proquest.com/hnpnewyorktimes/docview/102763891`. From the article: "American scientists heard today of a new phenomenon in physics — explosion of atoms with a discharge of 200,000,000 volts of energy. ... Dr. Enrico Fermi of the University of Rome told yesterday that this had been accomplished by Dr. G. [sic] Hahn of Berlin. ... Scientists at the meeting said the discovery was comparable in significance to the original discovery of radioactivity thirty years ago.".

Anonymous:1939:AER

[Ano39c] Anonymous. Atomic energy released. *The Science News-Letter*, 35(6):??, February 11, 1939. CODEN SNLEAI. ISSN 0096-4018 (print), 2326-1285 (electronic). URL `http://www.sciencenews.org/view/feature/id/199036/title/Atomic_Energy_Released`. According to [BHT86, page 212, column 1], this news story "appears to be the first connection between fission and the possibility of explosives made in print." Flügge's scientific article on that topic in Naturwissenschaften [Flü39] did appear until June 1939.

Anonymous:1939:VEF

[Ano39d] Anonymous. Vast energy freed by uranium atom: Split, it produces 2 'cannonballs', each of 100,000,000 electron volts: Hailed as epoch making; new process, announced at Columbia, uses only 1–30 volt to liberate big force. *New York Times*, ??(??): 18, January 31, 1939. CODEN NYTIAO. ISSN 0362-4331 (print), 1542-667X, 1553-8095. URL `http://search.proquest.com/hnpnewyorktimes/docview/102759255/`.

Anonymous:1941:MMU

[Ano41a] Anonymous. Minutes of the meeting of the Uranium Advisory Committee of the National Academy on Atomic Fission at Schenectady on October 21, 1941. Report, US National Academy of Sciences, Washington, DC, USA, 1941.

Anonymous:1941:RNA

[Ano41b] Anonymous. Report of the National Academy of Sciences Committee on Atomic Fission. Report, US National Academy of Sciences, Washington, DC, USA, July 11, 1941.

Anomalous:1946:ZWF

[Ano46a] Anomalous. Zip out: World's first uranium pile. *Time*, 48(??): 67–??, December 9, 1946. CODEN TYMEA9. ISSN 0040-781x (print), 2169-1665 (electronic).

Anonymous:1946:SZ

[Ano46b] Anonymous. Science: Zip out. *Time*, ??(??):??, December 9, 1946. CODEN TYMEA9. ISSN 0040-781x (print), 2169-1665 (electronic). URL `http://www.time.com/time/magazine/article/0,9171,793263,00.html`. News story of the first successful controlled nuclear reaction in Chicago under the direction of Enrico Fermi on 2 December 1942.

Anonymous:1947:EFH

[Ano47] Anonymous. Enrico Fermi, head-and-shoulders portrait, facing front, 1947. URL `http://hdl.loc.gov/loc.pnp/cph.3c22125`.

Anonymous:1949:GIT

[Ano49] Anonymous. The great inquiry: Testimony at AEC hearings. *Bulletin of the Atomic Scientists*, 5(8–9):221–250, 254, August/September 1949. CODEN BASIAP. ISSN 0096-3402 (print), 1938-3282 (electronic). This report is a condensation of the 2000-page transcript.

Anonymous:1950:GBM

[Ano50a] Anonymous. Great Britain: Missing fissionist. *Time*, ??(??):??, November 6, 1950. CODEN TYMEA9. ISSN 0040-781x (print), 2169-1665 (electronic). URL `http://en.wikipedia.org/wiki/Bruno_Pontecorvo; http://www.time.com/time/magazine/article/0,9171,813688,00.html`. News story of the disappearance on 31 August 1950 of Enrico Fermi's former student, Bruno Pontecorvo. Several months later, Pontecorvo appeared publicly in the USSR.

Anonymous:1950:NFA

[Ano50b] Anonymous. Nobelist Fermi awarded patent on atomic device. *The Science News-Letter*, 58(20):311, November 11, 1950. CODEN SNLEAI. ISSN 0096-4018 (print), 2326-1285 (electronic). URL `http://www.jstor.org/stable/3927761`.

Anonymous:1951:EFS

[Ano51] Anonymous. Enrico Fermi seated at control panel of a particle accelerator, the "world's most powerful atom smasher", 1951. URL `http://hdl.loc.gov/loc.pnp/cph.3c20917`.

Anonymous:1952:SFD

[Ano52] Anonymous. Science: First decade. *Time*, ??(??):??, December 15, 1952. CODEN TYMEA9. ISSN 0040-781x (print), 2169-1665 (electronic). URL `http://www.time.com/time/magazine/article/0,9171,820510,00.html`. Commentary on the 10th anniversary of the first successful controlled nuclear reaction in Chicago under the direction of Enrico Fermi on 2 December 1942.

Anonymous:1953:APP

[Ano53a] Anonymous. Atomic patent payoff: Italian scientists who derived isotopes are compensated. *New York Times*, ??(??):E7, August 9, 1953. CODEN NYTIAO. ISSN 0362-4331 (print), 1542-667X, 1553-8095. URL `https://search.proquest.com/hnpnewyorktimes/docview/112618167/`.

Anonymous:1953:SAP

[Ano53b] Anonymous. Science: Atomic patent. *Time*, ??(??):??, August 10, 1953. CODEN TYMEA9. ISSN 0040-781x (print), 2169-1665 (electronic). URL `http://www.time.com/time/magazine/article/0,9171,818653,00.html`. News story on a 1935 patent application by Enrico Fermi and his colleagues.

Anonymous:1954:AHB

[Ano54a] Anonymous. The atom: The H-bomb delay. *Time*, ??(??):??, February 8, 1954. CODEN TYMEA9. ISSN 0040-781x (print), 2169-1665 (electronic). URL `http://www.time.com/time/magazine/article/0,9171,857625,00.html`. News story on the history of the development of the first thermonuclear weapon.

Anonymous:1954:MD

[Ano54b] Anonymous. Milestones, Dec. 6, 1954. *Time*, ??(??):??, December 6, 1954. CODEN TYMEA9. ISSN 0040-781x (print), 2169-1665 (electronic). URL `http://www.time.com/time/magazine/article/0,9171,820990,00.html`. From the article: "Died. Enrico Fermi, 53, world-famed Italian-born nuclear physicist who supervised the building of the first successful nuclear reactor; of cancer; in Chicago.".

Anonymous:1954:SDN

[Ano54c] Anonymous. Science: Death of a navigator. *Time*, ??(??): ??, December 6, 1954. CODEN TYMEA9. ISSN 0040-781x (print), 2169-1665 (electronic). URL `http://www.time.com/time/magazine/article/0,9171,820969,00.html`.

Anonymous:1954:SLF

[Ano54d] Anonymous. Science: Life with Fermi. *Time*, ??(??):??, October 18, 1954. CODEN TYMEA9. ISSN 0040-781x (print), 2169-1665 (electronic). URL `http://www.time.com/time/magazine/article/0,9171,936557,00.html`. Book review of [Fer54k].

Anonymous:1955:FP

[Ano55a] Anonymous. Fermi Prize. *Bulletin of the Atomic Scientists*, 11 (2):70, February 1955. CODEN BASIAP. ISSN 0096-3402 (print), 1938-3282 (electronic). The announcement begins: "The first AEC award of $25,000 for especially meritorious contribution to the development of atomic energy, provided for in the Atomic Energy Act of 1954, was given to Enrico Fermi, November 16, 1954, twelve days before his death." It end with "Subsequent awards will be known as the "Fermi Prize".

Anonymous:1955:PIF

[Ano55b] Anonymous. Patent is issued on first reactor; Fermi–Szilard invention gets recognition — A. E. C. holds ownership. *New York Times*, page 19, May 19, 1955. CODEN NYTIAO. ISSN 0362-4331 (print), 1542-667X, 1553-8095. URL `http://search.proquest.com/hnpnewyorktimes/docview/113334584/`. See entry [FS55] for the patent.

Anonymous:1955:PAI

[Ano55c] Anonymous. Pioneer atom inventions receive patents. *The Science News-Letter*, 68(9):134, August 27, 1955. CODEN SNLEAI. ISSN 0096-4018 (print), 2326-1285 (electronic). URL `http://www.jstor.org/stable/3935856`. Discusses US patents 2,714,577 and 2,714,668, applied for in 1945, but not awarded for a decade, and after Fermi's death.

Anonymous:1956:EFH

[Ano56a] Anonymous. Enrico Fermi and his contributions to physics. *Nature*, 177(4513):781, April 28, 1956. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic). URL `http://www.nature.com/nature/journal/v177/n4513/pdf/177781a0.pdf`.

Anonymous:1956:SRN

[Ano56b] Anonymous. Science: The real neutrino. *Time*, ??(??):??, July 2, 1956. CODEN TYMEA9. ISSN 0040-781x (print), 2169-1665 (electronic). URL `http://www.time.com/time/magazine/article/0,9171,891295,00.html`. From the story: "[Neutrinos] were reasoned into existence by Nobel Prizewinners Enrico Fermi and Wolfgang Pauli to fill a theoretical need, and the gnawing suspicion has long persisted that they do not exist. Last week from the Atomic Energy Commission came big news. Neutrinos do exist".

Anonymous:1957:FP

[Ano57] Anonymous. Fermi professorship. *Science*, 125(3244):391, March 1, 1957. CODEN SCIEAS. ISSN 0036-8075 (print), 1095-9203 (electronic). URL `http://www.jstor.org/stable/1753499`.

Anonymous:1958:PWG

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He also told a story of Leo Szilard's quirky behavior.

"At Chicago, Fermi used to give weekly lectures on Thursday evenings. Outside the lecture hall there was a sign up sheet, on a yellow legal pad. Szilard, who I think wasn't sure we were going to win the war, refused to put his name on the sign up sheet, so Fermi had him listen to the lectures from the hallway, through an open door.".

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[FAP+40] Enrico Fermi, Edoardo Amaldi, Bruno Pontecorvo, Franco Rasetti, and Emilio Segré. Process for the production of radioactive substances. US Patent 2,206,634., July 2, 1940. URL `http://www.google.com/patents/US2206634`. US Patent Application 43,462, filed October 3, 1935.

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Fermi:2003:GSR

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Fermi:1921:SCG

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Fermi:1922:CGD

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Fermi:1922:RRI

[Fer22b] Enrico Fermi. I raggi Röntgen. (Italian) [X-rays]. *Il Nuovo Cimento (6)*, 24(1):133–163, ???? 1922. CODEN NUCIAD. ISSN 0029-6341 (print), 1827-6121 (electronic). URL `http://www.springerlink.com/content/533p81w97245h921/`.

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[Fer22c] Enrico Fermi. Sopra i fenomeni che avvengono in vicinanza di una linea oraria. (Italian) [On the phenomena that occur in the neighborhood of a world line]. *Rendiconti dell'Accademia Nazionale dei Lincei*, 31(1):21–23, 51–52, 101–103, 1922. CODEN AANLAW. ISSN 0001-4435. Source unknown. See [Fer66c] for an English translation, and images of the original document in Italian.

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Fermi:1922:STD

[Fer22e] Enrico Fermi. Sulla teoria dell'influenza della temperatura sopra la diffrazione dei raggi Röntgen nei cristalli. (Italian) [On the theory of the influence of temperature on the diffraction of X-rays in crystals]. Manuscript in the Pisa archives [DS09, page 4]., 1922.

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[Fer22f] Enrico Fermi. Über einen Widerspruch zwischen der elektrodynamischen und relativistischen Theorie der elektromagnetischen Masse. (German) [Discrepancy between electrodynamic relativist theories of electromagnetic mass]. *Physikalische Zeitschrift*, 23(17):340–344, September 1, 1922. CODEN PHZTAO. ISSN 0369-982X. URL `http://en.wikisource.org/wiki/Electrodynamic_and_Relativistic_Theory_of_Electromagnetic_Mass`; `http://hdl.handle.net/2027/mdp.39015086723239`.

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[Fer22g] Enrico Fermi. Un perfezionamento della teoria di Debye dell'influenza dell'agitazione termica sopra la diffrazione. (Italian) [A refinement of the theory of Debye on the influence of thermal diffraction]. Manuscript in the Pisa archives [DS09, page 4]., 1922.

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[Fer22h] Enrico Fermi. *Un teorema di calcolo delle probabilità ed alcune sue applicazioni. (Italian) [A theorem on probability and some of its applications]*. Tesi di abilitazione, Scuola Normale Superiore di Pisa, Pisa, Italy, July 1922. Diplome in mathematics (cum laude), published later [Fer26e].

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Fermi:1923:CCT

[Fer23c] Enrico Fermi. Correzione di una contraddizione tra la teoria elettrodinamica e quella relativistica delle masse elettromagnetiche. (Italian) [Correction of a contradiction between the theory of electrodynamics and relativistic electromagnetic mass]. *Il Nuovo Cimento (6)*, 25(1):159–170, ???? 1923. CODEN NUCIAD. ISSN 0029-6341 (print), 1827-6121 (electronic). URL `http://www.springerlink.com/content/6h82m8g485410636/`.

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[Fer23e] Enrico Fermi. Dimostrazione che in generale un sistema meccanico normale è quasi-ergodico. (Italian) [Demonstration that in general a normal mechanical system is quasi-ergodic]. *Il Nuovo Cimento (6)*, 25(7):267–269, ???? 1923. CODEN NUCIAD. ISSN 0029-6341 (print), 1827-6121 (electronic). URL `http://www.springerlink.com/content/7223216276011616/`.

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[Fer23h] Enrico Fermi. Il principio delle adiabatiche ed i sistemi che non ammettono coordinate angolari. (Italian) [The adiabatic principle and systems that do not allow angular coordinates]. *Il Nuovo Cimento (6)*, 25(1):171–175, ???? 1923. CODEN NUCIAD. ISSN 0029-6341 (print), 1827-6121 (electronic). URL `http://www.springerlink.com/content/7884315r31620004/`.

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[Fer23i] Enrico Fermi. Le masse nella teoria della relatività. In *I fondamenti della relatività Einsteiniana: valore e interpretazione della teoria. (Italian) [The foundations of Einsteinian relativity: value and interpretation of the theory]* [Kop23], pages 342–344. LCCN ???? Appendix.

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[Fer23j] Enrico Fermi. Sopra la teoria di Stern della costante assoluta dell'entropia di un gas perfetto monoatomico. (Italian) [On Stern's theory of the absolute constancy of the entropy of a perfect monatomic gas]. *Rendiconti dell'Accademia Nazionale dei Lincei*, 32(2):395–398, ???? 1923. CODEN AANLAW. ISSN 0001-4435.

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[Fer23k] Enrico Fermi. Sul peso dei corpi elastici. (Italian) [On the weight of elastic bodies]. *Memorie Lincei*, 14(5):114–124, ???? 1923.

Fermi:1923:STD

[Fer23l] Enrico Fermi. Sul trascinamento del piano di polarizzazione da parte di un mezzo rotante. (Italian) [On the rotation of the plane of polarization of light in a rotating medium]. *Rendiconti dell'Accademia Nazionale dei Lincei*, 32(5):115–118, ???? 1923. CODEN AANLAW. ISSN 0001-4435.

Fermi:1923:SPD

[Fer23m] Enrico Fermi. Sulla probabilità degli stati quantici. (Italian) [On the probability of quantum states]. *Rendiconti dell'Accademia Nazionale dei Lincei*, 32(5, ii):493–495, ???? 1923. CODEN AANLAW. ISSN 0001-4435.

Fermi:1923:STSb

[Fer23n] Enrico Fermi. Sulla teoria statistica di Richardson dell'effetto fotoelettrico. (Italian) [On the Richardson statistical theory of the photoelectric effect]. *Il Nuovo Cimento (6)*, 26(1):97–104, ???? 1923. CODEN NUCIAD. ISSN 0029-6341 (print), 1827-6121 (electronic). URL `http://www.springerlink.com/content/l0510q7018367582/`.

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[Fer24a] Enrico Fermi. Berekingen over de intensiteiten van spektraallijnen. (Dutch) [Calculations of the intensities of spectral lines]. *Physika*, 4(??):340–343, ???? 1924.

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[Fer24b] Enrico Fermi. Considerazioni sulla quantizzazione dei sistemi che contengono degli elementi identici. (Italian) [Considerations on the quantization of systems that contain identical elements]. *Il*

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[Fer24c] Enrico Fermi. Optical resonance reflection and diffusion. *Rendiconti dell'Accademia Nazionale dei Lincei*, 33(1):90–93, ???? 1924. CODEN AANLAW. ISSN 0001-4435.

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[Fer24e] Enrico Fermi. Sull'equilibrio termico di ionizzazione. (Italian) [On thermal equilibrium ionization]. *Il Nuovo Cimento (8)*, 1(1):153–158, ???? 1924. CODEN NUCIAD. ISSN 0029-6341 (print), 1827-6121 (electronic). URL http://www.springerlink.com/content/ag34574751012h22/.

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[Fer24f] Enrico Fermi. Úber die Existenz quasi-Ergodischer Systeme. (German) [On the existence of quasi-ergodic systems]. *Physikalische Zeitschrift*, 25(??):166–167, ???? 1924. CODEN PHZTAO. ISSN 0369-982X.

Fermi:1924:TSZ

[Fer24g] Enrico Fermi. Über die Theorie des Stoßes zwischen Atomen und elektrisch geladenen Teilchen. (German) [On the theory of the collisions between atoms and electrically-charged particles]. *Zeitschrift für Physik*, 29(1):315–327, December 1924. CODEN ZEPYAA. ISSN ???? URL http://inspirehep.net/record/2807; http://www.springerlink.com/content/9302470h61p55636/.

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[Fer24h] Enrico Fermi. Über die Wahrscheinlichkeit der Quantenzustände. (German) [On the probability of quantum states]. *Zeitschrift für Physik*, 26(1):54–56, ???? 1924. CODEN ZEPYAA. ISSN ???? URL http://www.springerlink.com/content/jq848v33515m123l/.

Fermi:1925:EPL

[Fer25a] Enrico Fermi. *Elettrodinamica: prima lezione integrale del dattiloscritto del Corso di Fisica Matematica (Lezioni ei Eletrodinamica e Teoria della Relatività) del 1924–1925. (Italian) [Electrodynamics: the first lesson of the full manuscript of the Course of Mathematical Physics (Lessons and Theory of Relativity and Electrodynamics) of 1924–1925].* Presso l'Università di Firenze, Firenze, Italy, 1925. ???? pp. LCCN ????

Fermi:1925:STC

[Fer25b] Enrico Fermi. Sopra la teoria dei corpi solidi. (Italian) [On the theory of solid bodies]. *Periodico di Matematiche*, 5(4):264–274, ???? 1925.

Fermi:1925:SID

[Fer25c] Enrico Fermi. Sopra l'intensità delle righe multiple. (Italian) [On the intensities of multiple lines]. *Rendiconti dell'Accademia Nazionale dei Lincei*, 1(6):120–124, 1925. CODEN AANLAW. ISSN 0001-4435.

Fermi:1925:SUT

[Fer25d] Enrico Fermi. Sopra l'urto tra atomi e nuclei di idrogeno. (Italian) [On collisions between atoms and hydrogen nuclei]. *Rendiconti Accad. d. L. Roma (6)*, 1(6):77–80, 1925.

Fermi:1925:SPD

[Fer25e] Enrico Fermi. Sui principi della teoria dei quanti. (Italian) [On the principles of the quantum theory]. *Rendiconti del Seminario matematico dell'Università di Roma*, 8:7–12, ???? 1925.

Fermi:1925:STD

[Fer25f] Enrico Fermi. Sulla teoria dell'urto tra atomi e corpuscoli elettrici. (Italian) [On the theory of collisions between atoms and electrically-charged particles]. *Il Nuovo Cimento (8)*, 2(2):143–158, ???? 1925. CODEN NUCIAD. ISSN 0029-6341 (print), 1827-6121 (electronic). URL `http://www.springerlink.com/content/d4k7020l17x76169/`. English translation in [Fer01].

Fermi:1925:RTC

[Fer25g] Enrico Fermi. Una relazione tra le costanti delle bande infrarosse delle molecole triatomiche. (Italian) [A relation between the constants of the infra-red bands of triatomic molecules]. *Rendiconti*

dell'Accademia Nazionale dei Lincei, 1(6):386–387, ???? 1925. CODEN AANLAW. ISSN 0001-4435.

Fermi:1926:APC

[Fer26a] Enrico Fermi. Argomenti pro e contro la ipotesi dei quanti di luce. (Italian) [Arguments for and against the hypothesis of light quanta]. *Il Nuovo Cimento (8)*, 3(1–2):47–54, ???? 1926. CODEN NUCIAD. ISSN 0029-6341 (print), 1827-6121 (electronic). URL `http://www.springerlink.com/content/lm022085605043uh/`.

Fermi:1926:PCN

[Fer26b] Enrico Fermi. Problemi di chimica nella fisica dell'atomo. (Italian) [The problems of chemistry in atomic physics]. *Periodico di Matematiche*, 6(4):19–26, ???? 1926.

Fermi:1926:QMM

[Fer26c] Enrico Fermi. Quantum mechanics and the magnetic moment of atoms. *Nature*, 118(2981):876, December 18, 1926. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic). URL `http://www.nature.com/nature/journal/v118/n2981/pdf/118876a0.pdf`.

Fermi:1926:SID

[Fer26d] Enrico Fermi. Sopra l'intensità delle righe proibite nei campi magnetici intensi. (Italian) [On the intensity of forbidden lines in strong magnetic fields]. *Rendiconti dell'Accademia Nazionale dei Lincei*, 3(6):478–483, ???? 1926. CODEN AANLAW. ISSN 0001-4435.

Fermi:1926:SFC

[Fer26e] Enrico Fermi. Sopra una formula di calcolo delle probabilità. (Italian) [On a formula for calculating the probability]. *Il Nuovo Cimento (8)*, 3(1–2):313–318, ???? 1926. CODEN NUCIAD. ISSN 0029-6341 (print), 1827-6121 (electronic). URL `http://www.springerlink.com/content/41428t2uk9671532/`. This paper is the publication of Fermi's Diplome degree [Fer22h].

Fermi:1926:SQD

[Fer26f] Enrico Fermi. Sulla quantizzazione del gas perfetto monoatomico. (Italian) [On the quantization of the ideal monatomic gas]. *Rendiconti dell'Accademia Nazionale dei Lincei*, 3(6):145–149, ???? 1926. CODEN AANLAW. ISSN 0001-4435.

Fermi:1926:QIE

[Fer26g] Enrico Fermi. Zur Quantelung des idealen einatomigen Gases. (German) [On the quantization of an ideal monatomic gas]. *Zeitschrift für Physik*, 36(11–12):902–912, November 1926. CODEN ZEPYAA. ISSN ???? URL `http://www.springerlink.com/content/k763270092273181/`.

Fermi:1926:WSG

[Fer26h] Enrico Fermi. Zur Wellenmechanik des Stoßvorganges. (German) [On the wave mechanics of collision processes]. *Zeitschrift für Physik*, 40(5):399–402, May 1926. CODEN ZEPYAA. ISSN ???? URL `http://www.springerlink.com/content/wg37207762047g85/`.

Fermi:1926:LFT

[Fer27a] Enrico Fermi. *Lezioni di Fisica teorica. (Italian) [Lectures on theoretical physics].* Stabilimento Tipolitografico del Genio Civile, Roma, Italia, 1926–1927. 60 pp. Notes by Dei and Martinozzi.

Fermi:1927:APC

[Fer27b] Enrico Fermi. Argomenti pro e contro la ipotesi dei quanti di luce. (Italian) [Arguments for and against the hypothesis of light quanta]. *Rendiconti Seminario Mat. Roma (2)*, 4(??):31–32, ???? 1927.

Fermi:1927:EEM

[Fer27c] Enrico Fermi. Gli effetti elettro e magnetoottici e le loro interpretazioni. (Italian) [Electro- and magnetooptical effects and their interpretation]. *L'Energia Elettrica*, ??(??):109–120, ???? 1927. Special issue on the centenary of the death of A. Volta.

Fermi:1927:SMD

[Fer27d] Enrico Fermi. Sul meccanismo dell'emissione nella meccanica ondulatoria. (Italian) [Mechanism of emission according to undulatory mechanics]. *Rendiconti dell'Accademia Nazionale dei Lincei*, 5(6):795–800, ???? 1927. CODEN AANLAW. ISSN 0001-4435.

Fermi:1927:MSP

[Fer27e] Enrico Fermi. Un metodo statistico per la determinazione di alcune proprietá dell'atomo. (Italian) [A statistical method for the determination of some atomic properties]. *Rendiconti dell'Accademia Nazionale dei Lincei*, 6(6):602–607, ???? 1927.

CODEN AANLAW. ISSN 0001-4435. This paper is the Fermi side of the Thomas–Fermi model, which Fermi developed independently a year after the work of Llewellyn H. Thomas ([Tho27]). See [Seg70b, page 53], [GR08], and [DS09] for historical background.

Fermi:1928:AGP

[Fer28a] Enrico Fermi. Anomalous groups in the periodic system of elements. *Nature*, 121(3048):502, March 31, 1928. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic). URL `http://www.nature.com/nature/journal/v121/n3048/pdf/121502b0.pdf`.

Fermi:1928:SMB

[Fer28b] Enrico Fermi. Eine statistische Methode zur Bestimmung einiger Eigenschaften des Atoms und ihre Anwendung auf die Theorie des periodischen Systems der Elemente. (German) [A statistical method for the determination of some atomic properties and its application to the theory of the periodic system of elements]. *Zeitschrift für Physik*, 48(1–2):73–79, January 1928. CODEN ZEPYAA. ISSN ???? URL `http://www.springerlink.com/content/v762582061464612/`. See English translation in [Mar75, pp. 205–213].

Fermi:1928:IAF

[Fer28c] Enrico Fermi. *Introduzione alla Fisica Atomica. (Italian) [Introduction to atomic physics]*. N. Zanichelli, Bologna, Italy, 1928. 330 pp. LCCN ????

Fermi:1928:PMC

[Fer28d] Enrico Fermi. Problemi matematici connessi alla nuova meccanica. (Italian) [Mathematical problems associated with the new mechanics]. *Rendiconti Seminario Mat. Roma*, 5(??):23, ???? 1928.

Fermi:1928:SBR

[Fer28e] Enrico Fermi. Statistische Berechnung der Rydbergkorrektionen der s-Terme. (German) [Statistical calculation of the Rydberg correction s-terme]. *Zeitschrift für Physik*, 49(7–8):550–554, ???? 1928. CODEN ZEPYAA. ISSN ???? URL `http://www.springerlink.com/content/g467772270t34273/`.

Fermi:1928:SDSa

[Fer28f] Enrico Fermi. Sulla deduzione statistica di alcune proprietà dell'atomo. Applicazione alla teoria del sistema periodico degli elementi. (Italian) [On statistical inference of some atomic properties. Applying the theory to the periodic system of elements]. *Rendiconti dell'Accademia Nazionale dei Lincei*, 7(6):342–346, ???? 1928. CODEN AANLAW. ISSN 0001-4435.

Fermi:1928:SDSb

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[Fer42c] Enrico Fermi. The critical size — measurement of k in the exponential pile. Report C-289, US Atomic Energy Commission, Washington, DC, USA, 1942.

Fermi:1942:DGU

[Fer42d] Enrico Fermi. Design of the graphite–uranium lattice: Experimental determination of f_t from the Cd ratio. Report CP-337, US Atomic Energy Commission, Washington, DC, USA, 1942. Notes on Lectures of October 27 and November 3, 1942.

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Fermi:1954:QM

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Fermi:1961:M

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Fermi:1961:SAE

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Fermi:1966:NTS

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Fermi:1966:PON

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Fermi:1968:M

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[Maj37] Ettore Majorana. Teoria simmetrica dell elettrone e del positrone. (Italian) [Symmetrical theory of the electron and the positron]. *Il Nuovo Cimento (8)*, 14(4):171–184, April 1937. CODEN NUCIAD. ISSN 0029-6341 (print), 1827-6121 (electronic). URL `http://en.wikipedia.org/wiki/Majorana_mass; http://nl.wikipedia.org/wiki/Majorana-deeltje`. In this paper, Majorana predicted the existence of a new type of particle, now called a *Majorana fermion*, which is its own antiparticle, and whose existence may have finally been confirmed by experiment seventy years later [FK08, MZF+12, Ser12]. See also comments in [ACM10]. Esposito [Esp08a] reports about this paper "With amazing farsightedness Majorana suggested that the neutrino, which had just been postulated by Wolfgang Pauli and Fermi to explain puzzling features of radioactive beta decay, could be such a particle. This would make the neutrino unique among the elementary particles and, moreover, enable it to have mass. Today many experiments are still devoted to detect these peculiar properties, which include the phenomenon of neutrino oscillations: we have not yet succeeded to find a definite answer to Majorana's proposal.".

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[Man57] John H. Manley. Book review: Laura Fermi, *Atoms for the World: US Participation in the Conference on the Peaceful Uses of Atomic Energy*. *Physics Today*, 10(7):28, July 1957. CODEN PHTOAD. ISSN 0031-9228 (print), 1945-0699 (electronic). URL `http://www.physicstoday.org/resource/1/phtoad/v10/i7/p28_s1`.

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[McM51] Edwin M. McMillan. The transuranium elements: Early history. Report UCRL-1619, Radiation Laboratory, University of California, Berkeley, Berkeley, CA, USA, December 1951. URL `http://www.osti.gov/accomplishments/documents/fullText/ACC0361.pdf`. Nobel Lecture given at Stockholm on December 12, 1951.

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[MF39b] Lise Meitner and Otto Robert Frisch. On the products of the fission of uranium and thorium under neutron bombardment. *Math.-fys. Meddr*, 17(5):1–13, 1939.

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[MF39c] Lise Meitner and Otto Robert Frisch. Products of the fission of the uranium nucleus. *Nature*, 143(3620):471–472, March 18, 1939. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic). URL `http://www.nature.com/nature/journal/v143/n3620/pdf/143471a0.pdf`. See note in [MF39a].

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[Moo95] Mike Moore. Book review: The gadgets made real: *Picturing the Bomb: Photographs from the Secret World of the Manhattan Project*, by Rachel Fermi and Esther Samra, introduction by Richard Rhodes. *Bulletin of the Atomic Scientists*, 51(5):65–66, November/December 1995. CODEN BASIAP. ISSN 0096-3402

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ence Division Lawrence Berkeley Laboratory University of California, Berkeley, California 94720, USA, August 1994. 44 pp. URL `http://www.osti.gov/accomplishments/documents/fullText/ACC0060.pdf`.

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[NAF+52] Darragh E. Nagle, Herbert L. Anderson, Enrico Fermi, E. A. Long, and R. L. Martin. Scattering of negative pions by hydrogen [abstract only]. *Physical Review*, 86(4):603, May 1952. CODEN PHRVAO. ISSN 0031-899X (print), 1536-6065 (electronic). URL `http://link.aps.org/doi/10.1103/PhysRev.86.579.2`. Minutes of the 1952 Annual Meeting Held at New York City, January 31, February 1–2, 1952.

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[NBDG40] Alfred O. Nier, E. T. Booth, J. R. Dunning, and A. V. Grosse. Nuclear fission of separated uranium isotopes. *Physical Review*, 57(6):546, March 1940. CODEN PHRVAO. ISSN 0031-899X (print), 1536-6065 (electronic). URL `http://link.aps.org/doi/10.1103/PhysRev.57.546`. This paper reports experiments

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[Nis18] Martin Niss. What is physics problem-solving competency? The views of Arnold Sommerfeld and Enrico Fermi. *Science & Education (Springer)*, 27(3–4):357–369, May 2018. CODEN SCEDE9. ISSN 0926-7220 (print), 1573-1901 (electronic). URL `https://link.springer.com/article/10.1007/s11191-018-9973-z`.

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[Nod34] Ida Noddack. Über das Element 93. (German) [On element 93 [neptunium]]. *Zeitschrift für Angewandte Chemie*, 47(37):653–655, September 15, 1934. ISSN 0932-2132. URL `http://en.wikipedia.org/wiki/Neptunium; http://onlinelibrary.wiley.com/doi/10.1002/ange.19340473707/abstract; http://www.chemteam.info/Chem-History/Noddack-1934.html`. According to Frisch [FW67, page 48], "Ida Noddack, a German chemist, quite rightly pointed out that they might be lighter elements [after bombardment of uranium by neutrons]; but her comments (published in a journal not much read by chemists and hardly at all by physicists) were regarded as mere pedantry. She did not indicate how such light elements could be formed; her paper had probably no effect whatever on later work.". English translation in [GA71, pages 16–20].

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[Oak18] Andrew Oakes. Review: Douglas A. Vakoch and Matthew F. Dowd. *The Drake Equation: Estimating the Prevalence of Extraterrestrial Life through the Ages. Spontaneous Generations: A*

Journal for the History and Philosophy of Science, 9(1):186–188, ???? 2018. CODEN ???? ISSN 1913-0465. URL `https://spontaneousgenerations.library.utoronto.ca/index.php/SpontaneousGenerations/article/view/29357`.

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[OBC+49] J. Robert Oppenheimer, Oliver E. Buckley, James B. Conant, Lee A. DuBridge, Enrico Fermi, I. I. Rabi, Hartley Rowe, Glenn T. Seaborg, and Cyril S. Smith. AEC Advisory Committee statement on fellowships. *Bulletin of the Atomic Scientists*, 5(8–9):210, 254, August/September 1949. CODEN BASIAP. ISSN 0096-3402 (print), 1938-3282 (electronic).

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