

Particle Physics Midterm Exam

Stian S. Johannessen*

Department of Physics, NTNU, Norway.

(Dated: February 28, 2024)

An article usually includes an abstract, a concise summary of the work covered at length in the main body of the article.

-
- [1] N. D. Birell and P. C. W. Davies, Quantum Fields in Curved Space (Cambridge University Press, 1982).
- [2] R. P. Feynman, *Phys. Rev.* **94**, 262 (1954).
- [3] A. Einstein, Yu. Podolsky, and N. Rosen (EPR), *Phys. Rev.* **47**, 777 (1935).
- [4] J. G. P. Berman and J. F. M. Izrailev, Stability of nonlinear modes, *Physica D* **88**, 445 (1983).
- [5] E. B. Davies and L. Parns, Trapped modes in acoustic waveguides, *Q. J. Mech. Appl. Math.* **51**, 477 (1988).
- [6] E. Witten, (2001), [hep-th/0106109](#).
- [7] E. Beutler, in Williams Hematology, Vol. 2, edited by E. Beutler, M. A. Lichtman, B. W. Collier, and T. S. Kipps (McGraw-Hill, New York, 1994) Chap. 7, pp. 654–662, 5th ed.
- [8] E. Beutler, in Williams Hematology, Vol. 2, edited by E. Beutler, M. A. Lichtman, B. W. Collier, and T. S. Kipps (McGraw-Hill, New York, 1994) 5th ed., Chap. 7, pp. 654–662.
- [9] D. E. Knuth, in Fundamental Algorithms, The Art of Computer Programming, Vol. 1 (Addison-Wesley, Reading, Massachusetts, 1973) Section 1.2, pp. 10–119, 2nd ed., a full INBOOK entry.
- [10] J. S. Smith and G. W. Johnson, *Philos. Trans. R. Soc. London, Ser. B* **777**, 1395 (2005).
- [11] W. J. Smith, T. J. Johnson, and B. G. Miller, Surface chemistry and preferential crystal orientation on a silicon surface (2010), *J. Appl. Phys.* (unpublished).
- [12] V. K. Smith, K. Johnson, and M. O. Klein, Surface chemistry and preferential crystal orientation on a silicon surface (2010), *J. Appl. Phys.* (submitted).
- [13] U. Underwood, N. Net, and P. Pot, Lower bounds for wishful research results (1988), talk at Fanstord University (A full UNPUBLISHED entry).
- [14] M. P. Johnson, K. L. Miller, and K. Smith, personal communication (2007).
- [15] J. Smith, ed., AIP Conf. Proc., Vol. 841 (2007).
- [16] W. V. Oz and M. Yannakakis, eds., Proc. Fifteenth Annual, All ACM Conferences No. 17, ACM (Academic Press, Boston, 1983) a full PROCEEDINGS entry.
- [17] Y. Burstyn, Proceedings of the 5th International Molecular Beam Epitaxy Conference, Santa Fe, NM (2004), (unpublished).
- [18] B. Quinn, ed., Proceedings of the 2003 Particle Accelerator Conference, Portland, OR, 12–16 May 2005 (Wiley, New York, 2001) albeit the conference was held in 2005, it was the 2003 conference, and the proceedings were published in 2001; go figure.
- [19] A. G. Agarwal, Proceedings of the Fifth Low Temperature Conference, Madison, WI, 1999, *Semiconductors* **66**, 1238 (2001).
- [20] R. Smith, Hummingbirds are our friends, *J. Appl. Phys.* (these proceedings) (2001), abstract No. DA-01.
- [21] J. Smith, *Proc. SPIE* **124**, 367 (2007), required title is missing.
- [22] T. Terrific, An $O(n \log n / \log \log n)$ Sorting Algorithm, Wishful Research Result 7 (Fanstord University, Computer Science Department, Fanstord, California, 1988) a full TECHREPORT entry.
- [23] J. Nelson, TWI Report 666/1999 (Jan. 1999) required institution missing.
- [24] W. K. Fields, ECE Report No. AL944 (2005) required institution missing.
- [25] Y. M. Zalkins, e-print [arXiv:cond-mat/040426](#) (2008).
- [26] J. Nelson, U.S. Patent No. 5,693,000 (12 Dec. 2005).
- [27] J. K. Nelson, M.S. thesis, New York University (1999).
- [28] E. Masterly, Mastering Thesis Writing, Master's project, Stanford University, English Department (1988), a full MASTERSTHESIS entry.
- [29] S. M. Smith, Ph.D. thesis, Massachusetts Institute of Technology (2003).
- [30] S. R. Kawa and S.-J. Lin, *J. Geophys. Res.* **108**, 4201 (2003), DOI:10.1029/2002JD002268.
- [31] F. P. Phony-Baloney, Fighting Fire with Fire: Festooning French Phrases, PhD dissertation, Fanstord University, Department of French (1988), a full PHDTHESIS entry.
- [32] D. E. Knuth, Seminumerical Algorithms, 2nd ed., The Art of Computer Programming, Vol. 2 (Addison-Wesley, Reading, Massachusetts, 1981) a full BOOK entry.
- [33] J. C. Knvth, The programming of computer art, Vernier Art Center, Stanford, California (1988), a full BOOKLET entry.
- [34] R. Ballagh and C. Savage, Bose-einstein condensation: from atomic physics to quantum fluids, proceedings of the 13th physics summer school (World Scientific, Singapore, 2000) [cond-mat/9908070](#).
- [35] R. Ballagh and C. Savage, Bose-einstein condensation: from atomic physics to quantum fluids, in Proceedings of the 13th Physics Summer School, edited by C. Savage and M. Das (World Scientific,
-

* stiansjo@stud.ntnu.no

- Singapore, 2000) [cond-mat/0008070](#).
- [36] W. Opechowski and R. Guccione, Introduction to the theory of normal metals, in Magnetism, Vol. IIa, edited by G. T. Rado and H. Suhl (Academic Press, New York, 1965) p. 105.
 - [37] W. Opechowski and R. Guccione, Introduction to the theory of normal metals, in Magnetism, Vol. IIa, edited by G. T. Rado and H. Suhl (Academic Press, New York, 1965) p. 105.
 - [38] W. Opechowski and R. Guccione, Introduction to the theory of normal metals, in Magnetism, Vol. IIa, edited by G. T. Rado and H. Suhl (Academic Press, New York, 1965) p. 105.
 - [39] J. M. Smith, Molecular dynamics (Academic, New York, 1980).
 - [40] V. E. Zakharov and A. B. Shabat, Exact theory of two-dimensional self-focusing and one-dimensional self-modulation of waves in nonlinear media, Zh. Eksp. Teor. Fiz. **61**, 118 (1971), [Sov. Phys. JETP **34**, 62 (1972)].
 - [41] J. M. Smith, in Molecular Dynamics, edited by C. Brown (Academic, New York, 1980).
 - [42] D. D. Lincol, Semigroups of recurrences, in High Speed Computer and Algorithm Organization, Fast Computers No. 23, edited by D. J. Lipcoll, D. H. Lawrie, and A. H. Sameh (Academic Press, New York, 1977) 3rd ed., Part 3, pp. 179–183, a full INCOLLECTION entry.
 - [43] A. V. Oaho, J. D. Ullman, and M. Yannakakis, On notions of information transfer in VLSI circuits, in Proc. Fifteenth Annual ACM, Boston, 1982, All ACM Conferences No. 17, edited by W. V. Oz and M. Yannakakis, ACM (Academic Press, New York, 1983) pp. 133–139, a full INPROCEEDINGS entry.
 - [44] L. Manmaker, The Definitive Computer Manual, Chips-R-Us, Silicon Valley, silver ed. (1986), a full MANUAL entry.