

## References

- [1] A. Abragam. *Principles of Nuclear Magnetism*. Clarendon Press, Oxford, England, 1961.
- [2] I. L. Chuang, N. Gershenfeld, and M. Kubinec. Experimental implementation of fast quantum searching. *Physical Review Letters*, 80:3408–3411, 1998.
- [3] I. L. Chuang, N. Gershenfeld, M. Kubinec, and D. Leung. Bulk quantum computation with nuclear magnetic resonance: Theory and experiments. *Proceedings of the Royal Society of London A*, 1998.
- [4] I. L. Chuang, L. M. K. Vandersypen, X. Zhou, D. W. Leung, and S. Lloyd. Experimental realization of a quantum algorithm. *Nature*, 393:143–146, 1998. (Letter to Nature), quant-ph/9801037.
- [5] D. G. Cory, A. F. Fahmy, and T. F. Havel. Ensemble quantum computing by nmr-spectroscopy. *Proceedings of the National Academy of Sciences of the United States of America*, 94:1634–1639, 1997.
- [6] D. G. Cory, W. Maas, M. Price, E. Knill, R. Laflamme, W. H. Zurek, T. F. Havel, and S. S. Somaroo. Experimental quantum error correction. *Physical Review Letters*, to appear, 1998. quant-ph/9802018, LA-UR-98-564.
- [7] R. R. Ernst, G. Bodenhausen, and A. Wokaun. *Principles of Nuclear Magnetic Resonance in One and Two Dimensions*. Oxford University Press, Oxford, 1994.
- [8] R. P. Feynman. Quantum-mechanical computers. *Journal of the Optical Society of America B-Optical Physics*, 1:464, 1984.
- [9] N. A. Gershenfeld and I. L. Chuang. Bulk spin resonance quantum computation. *Science*, 275:350–356, 1997.
- [10] D. M. Greenberger, M. Horne, and A. Zeilinger. In M. Kafatos, editor, *Bell's Theorem, Quantum Mechanics and Conceptions of the Universe*. Kluwer, Dordrecht, The Netherlands, 1989.
- [11] L. K. Grover. A fast quantum mechanical algorithm for database search. quant-ph/9605043.
- [12] L. K. Grover. Quantum mechanics helps in searching for a needle in a haystack. *Physical Review Letters*, 79:325–328, 1997.
- [13] E. Knill, I. Chuang, and R. Laflamme. Effective pure states for bulk quantum computation. *Phys. Rev. A*, 57:3348–3363, 1998. quant-ph/9706053.
- [14] R. Laflamme, E. Knill, W. H. Zurek, P. Catasti, and S. V. S. Mariappan. Nmr-ghz. quant-ph/9709025, to appear in PRSA, 1997.
- [15] S. Lloyd. Universal quantum simulators. *Science*, 273:1073–1078, 1996.
- [16] L. J. Schulman and U. Vazirani. Scalable nmr quantum computation. quant-ph/9804060, 1998.
- [17] P. W. Shor. Algorithms for quantum computation: Discrete logarithms and factoring. In *Proceedings of the 35'th Annual Symposium on Foundations of Computer Science*, pages 124–134, Los Alamitos, California, 1994. IEEE Press.
- [18] P. W. Shor. Polynomial-time algorithms for prime factorization and discrete logarithms on a quantum computer. *SIAM J. Comput.*, 26:1484–1509, 1997.
- [19] S. S. Somaroo, D. G. Cory, and T. F. Havel. Expressing the operations of quantum computing in multiparticle geometric algebra. *Phys. Let. A*, 240:1–7, 1998. quant-ph/9801002.
- [20] O. W. Sørensen. Polarization transfer experiments in high-resolution nmr spectroscopy. *Progress in Nuclear Magnetic Resonance Spectroscopy*, 21:503–569, 1989.
- [21] W. van Dam, P. Hoyer, and A. Tapp. Multiparty quantum communication complexity. quant-ph/9710054, 1997.
- [22] U. Vazirani and collaborators. Communication complexity of sampling. Work on communication complexity for collision avoidance presented at Dagstuhl, 1998.

[23] S. Wiesner. Simulations of many-body quantum systems by a quantum computer. quant-ph/9603028, 1996.

[24] C. Zalka. Threshold estimate for fault tolerant quantum computation. quant-ph/9612028, 1996.