

## Bibliography

- [1] T. Kurosu and F. Shimizu. Laser cooling and trapping of calcium and strontium. Jpn. J. Appl. Phys., 29:L2127 – L2129, 1990.
- [2] Xinye Xu, Thomas H. Loftus, Josh W. Dunn, Chris H. Greene, John L. Hall, Alan Gallagher, and Jun Ye. Single-stage sub-Doppler cooling of alkaline earth atoms. Accepted for publication in Phys. Rev. Lett., 2003.
- [3] D. J. Wineland and H. Dehmelt. Proposed  $10^{14}\delta\nu/\nu$  laser fluorescence spectroscopy on  $\text{Ti}^+$  mono-ion oscillator. Bull. Am. Phys. Soc., 20:637, 1975.
- [4] T. W. Hänsch and A. Schawlow. Cooling of gases by laser radiation. Opt. Commun., 13:68 – 71, 1975.
- [5] Steven Chu, L. Hollberg, J. E. Bjorkholm, Alex Cable, and A. Ashkin. Three-dimensional viscous confinement and cooling of atoms by resonance radiation pressure. Phys. Rev. Lett., 55:48 – 51, 1985.
- [6] E. L. Raab, M. Prentiss, Alex Cable, Steven Chu, and D. E. Pritchard. Trapping of neutral sodium atoms with radiation pressure. Phys. Rev. Lett., 59:2631 – 2634, 1987.
- [7] K. R. Vogel, T. P. Dinneen, A. Gallagher, and J. L. Hall. Narrow-line Doppler cooling of strontium to the recoil limit. IEEE Trans. Instr. and Meas., 48:618 – 621, 1999.
- [8] Alan L. Migdall, John V. Prodan, William D. Phillips, Thomas H. Bergeman, and Harold J. Metcalf. First observation of magnetically trapped neutral atoms. Phys. Rev. Lett., 54:2596 – 2599, 1985.
- [9] C. W. Oates, F. Bondu, R. W. Fox, and L. Hollberg. A diode-laser optical frequency standard based on laser-cooled Ca atoms: Sub-kilohertz spectroscopy by optical shelving detection. Euro. Phys. J. D, 7:449 – 460, 1999.
- [10] K. Sengstock, U. Sterr, G. Hennig, D. Bettermann, J. H. Muller, and W. Ertmer. Optical Ramsey interferences on laser cooled and trapped atoms, detected by electron shelving. Opt. Commun., 103:73 – 78, 1993.
- [11] K. Honda, Y. Takahashi, T. Kuwamoto, M. Fujimoto, K. Toyoda, K. Ishikawa, and T. Yabuzaki. Magneto-optical trapping of Yb atoms and a limit on the branching ratio of the  $^1\text{P}_1$  state. Phys. Rev. A, 59:R934 – R937, 1999.

- [12] Stig Stenholm. The semiclassical theory of laser cooling. Rev. Mod. Phys., 58:699 – 739, 1986.
- [13] Paul D. Lett, Richard N. Watts, Christoph I. Westbrook, William D. Phillips, Phillip L. Gould, and Harold J. Metcalf. Observation of atoms laser cooled below the Doppler limit. Phys. Rev. Lett., 61:169 – 172, 1988.
- [14] J. Dalibard and C. Cohen-Tannoudji. Laser cooling below the Doppler limit by polarization gradients: simple theoretical-models. J. Opt. Soc. Am. B, 6:2023 – 2045, 1989.
- [15] P. J. Ungar, D.S. Weiss, S. Chu, and E. Riis. Optical molasses and multilevel atoms. J. Opt. Soc. Am. B, 6:2058 – 2071, 1989.
- [16] A. Aspect, E. Arimondo, R. Kaiser, N. Vansteenkiste, and C. Cohen-Tannoudji. Laser cooling below the one-photon recoil energy by velocity-selective coherent population trapping. Phys. Rev. Lett., 61:826 – 829, 1988.
- [17] E. Arimondo and G. Orriols. Lett. Nuovo Cim., 17:333.
- [18] H. R. Gray, R. M. Whitley, and C. R. Stroud Jr. Coherent trapping of atomic populations. Opt. Lett., 3:218 – 220, 1978.
- [19] A. Aspect, E. Arimondo, R. Kaiser, N. Vansteenkiste, and C. Cohen-Tannoudji. Laser cooling below the one-photon recoil energy by velocity-selective coherent population trapping: theoretical analysis. J. Opt. Soc. Am. B, 6:2112 – 2124, 1989.
- [20] F. Bardou, J. Bouchard, O. Emile, A. Aspect, and C. Cohen-Tannoudji. Subrecoil laser cooling and Lévy flights. Phys. Rev. Lett., 72:203 – 206, 1994.
- [21] Mark Kasevich, David S. Weiss, Erling Riis, Kathryn Moler, Steven Kasapi, and Steven Chu. Atomic velocity selection using stimulated Raman transitions. Phys. Rev. Lett., 66:2297 – 2300, 1991.
- [22] Mark Kasevich and Steven Chu. Laser cooling below a photon recoil with three-level atoms. Phys. Rev. Lett., 69:1741 – 1744, 1992.
- [23] Nir Davidson, Heun Jin Lee, Mark Kasevich, and Steven Chu. Raman cooling of atoms in two and three dimensions. Phys. Rev. Lett., 72:3158 – 3161, 1994.
- [24] Hidetoshi Katori. Spectroscopy of strontium atoms in the Lamb-Dicke confinement. In Patrick Gill, editor, Proceedings of the 6th Symposium on Frequency Standards and Metrology, pages 323 – 330, 2001.
- [25] T. Loftus, J. R. Bochinski, and T. W. Mossberg. Simultaneous multi-isotope trapping of ytterbium. Phys. Rev. A, 63:053401, 2001.
- [26] Andrei Derevianko. Feasibility of cooling and trapping metastable alkaline-earth atoms. Phys. Rev. Lett., 87:023002, 2001.
- [27] T. Loftus, J. R. Bochinski, and T. W. Mossberg. Magnetic trapping of ytterbium and the alkaline-earth metals. Phys. Rev. A, 66:013411, 2002.

- [28] S. B. Nagel, C.E. Simien, S. Laha, P. Gupta, V. S. Ashoka, and T. C. Killian. Magnetic trapping of metastable  $^3\text{P}_2$  atomic strontium. Phys. Rev. A, 67:011401(R), 2003.
- [29] Jan Grünert and Andreas Hemmerich. Sub-Doppler magneto-optic trap for calcium. Phys. Rev. A, 65:041401(R), 2002.
- [30] Tomas Binnewies, Uwe Sterr, Jürgen, and Fritz Riehle. Cooling by Maxwell's demon: Preparation of single-velocity atoms for matter-wave interferometry. Phys. Rev. A, 62:011601(R), 2000.
- [31] D. J. Wineland and Wayne M. Itano. Laser cooling of atoms. Phys. Rev. A, 20:1521 – 1540, 1979.
- [32] Y. Castin, H. Wallis, and J. Dalibard. Limit of Doppler cooling. J. Opt. Soc. Am. B, 6(11):2046 – 2057, 1989.
- [33] Hidetoshi Katori, Tetsuya Ido, Yoshitomo Isoya, and Makoto Kuwata-Gonokami. Magneto-optical trapping and cooling of strontium atoms down to the photon recoil temperature. Phys. Rev. Lett., 82:1116 – 1119, 1999.
- [34] T. Kuwamoto, K. Honda, Y. Takahashi, and T. Yabuzaki. Magneto-optical trapping of Yb atoms using an intercombination transition. Phys. Rev. A, 60:R745 – R748, 1999.
- [35] H. Wallis and W. Ertmer. Broadband laser cooling on narrow transitions. J. Opt. Soc. Am. B, 6:2211 – 2219, 1989.
- [36] F. Diedrich, J. C. Bergquist, Wayne M. Itano, and D. J. Wineland. Laser cooling to the zero-point energy of motion. Phys. Rev. Lett., 62:403 – 406, 1989.
- [37] I. I. Rabi. Space quantization in a gyrating magnetic field. Phys. Rep., 51:652, 1937.
- [38] J. Reichel, F. Bardou, M. Ben Dahan, E. Peik, S. Rand, C. Salomon, and C. Cohen-Tannoudji. Raman cooling of cesium below 3 nk: New approach inspired by Lévy flight statistics. Phys. Rev. Lett., 75:4575 – 4578, 1995.
- [39] W. Ertmer, R. Blatt, J. L. Hall, and M. Zhu. Laser manipulation of atomic beam velocities: Demonstration of stopped atoms and velocity reversal. Phys. Rev. Lett., 54:996 – 999, 1985.
- [40] T. Binnewies, G. Wilpers, U. Sterr, F. Riehle, J. Helmke, T. E. Mehlstäubler, E. M. Rasel, and W. Ertmer. Doppler cooling and trapping on forbidden transitions. Phys. Rev. Lett., 87:123002, 2001.
- [41] E. A. Curtis, C. W. Oates, and L. Hollberg. Quenched narrow-line laser cooling of  $^{40}\text{Ca}$  to near the photon recoil limit. Phys. Rev. A, 64:031403(R), 2001.
- [42] Uwe Sterr, Thomas Binnewies, Carsten Degenhardt, Guido Wilpers, Jürgen Helmcke, and Fritz Riehle. Prospects of Doppler cooling on forbidden lines. Accepted for publication in J. Opt. Soc. Am. B, 2003.

- [43] R. M. Whitley and C. R. Stroud Jr. Double optical resonance. Phys. Rev. A, 14:1498 – 1513, 2003.
- [44] M. Zhu, C. W. Oates, and J. L. Hall. Continuous high-flux monovelocity atomic beam based on a broadband laser-cooling technique. Phys. Rev. Lett., 67:46 – 49, 1991.
- [45] Kurt Vogel. Laser cooling on a narrow atomic transition and measurement of the two-body cold collision loss rate in a strontium magneto-optical trap. PhD thesis, University of Colorado, 1999.
- [46] K. C. Harvey and C. J. Myatt. External-cavity diode laser using a grazing-incidence diffraction grating. Opt. Lett., 16:910 – 912, 1991.
- [47] R. W. P. Drever, J. L. Hall, F. V. Kowalski, J. Hough, G. M. Ford, A. J. Munley, and H. Ward. Laser phase and frequency stabilization using an optical resonator. Appl. Phys. B, 31:97 – 105, 1983.
- [48] R. J. Rafac, B. C. Young, J. A. Beall, W. M. Itano, D. J. Wineland, and J. C. Bergquist. Sub-dekahertz ultraviolet spectroscopy of  $^{199}\text{Hg}^+$ . Phys. Rev. Lett., 85:2462 – 2465, 2000.
- [49] T. W. Hänsch and B. Couillaud. Laser frequency stabilization by polarization spectroscopy of a reflecting reference cavity. Opt. Commun., 35:441 – 444, 1980.
- [50] J. L. Hall, L. Hollberg, T. Baer, and H. G. Robinson. Optical heterodyne saturation spectroscopy. Appl. Phys. Lett., 39:680 – 682, 1981.
- [51] Warren Nagourney, Jon Sandberg, and Hans Dehmelt. Shelved optical electron amplifier: Observation of quantum jumps. Phys. Rev. Lett., 56:2797 – 2799, 1986.
- [52] D. J. Wineland, J. C. Bergquist, W. M. Itano, and R. E. Drullinger. Double-resonance and optical-pumping experiments on electromagnetically confined, laser-cooled ions. Opt. Lett., 5:245 – 247, 1980.
- [53] E. Anne Curtis, Christopher W. Oates, and Leo Hollberg. Quenched narrow-line second- and third-stage laser cooling of  $^{40}\text{Ca}$ . Accpeted for publication in the J. Opt. Soc. Am. B, 20, 2003.
- [54] D. W. Allan. Statistics of atomic frequency standards. Proc. IEEE, 54:221 – 230, 1966.
- [55] James A. Barnes, Andrew R. Chi, Leonard S. Cutler, Daniel J. Healey, David B. Leeson, Thomas E. McGunigal, James A. Mullen Jr., Warren L. Smith, Richard L. Sydnor, Robert F. C. Vessot, and Gernot M. R. Winkler. Characterization of frequency stability. IEEE Trans. Instrum. and Meas., 20:105 – 120, 1971.
- [56] L. Essen and J. V. Perry. An atomic standard of frequency and time interval. Nature, 176:280, 1955.
- [57] S. R. Jefferts, J. Shirley, T. E. Parker, T. P. Heavner, D. M. Meekhof, C. Nelson, F. Levi, G. Costanzo, A. De Marchi, R. Drullinger, L. Hollberg, W. D. Lee, and F. L. Walls. Accuracy evaluation of NIST F-1. Metrologia, 39:321 – 336, 2002.

- [58] A. Clarion, S. Ghezali, G. Santarelli, Ph. Laurent, S. Lea, M. Bahoura, E. Simon, S. Weyers, and K. Szymaniec. In 5th Symposium of Frequency Standards and Metrology, pages 49 – 59. World Scientific, 1996.
- [59] S. Bize, Y. Sortais, M. Abgrall, S. Zhang, D. Calonico, C. Mandache, P. Lemonde, P. Laurent, G. Santarelli, C. Solomon, A. Clarion, A. Luiten, and M. Tobar. Cs and Rb fountains: Recent results. In Patrick Gill, editor, Proceedings of the 6th Symposium on Frequency Standards and Metrology, pages 53 – 63, 2001.
- [60] Jörn Stenger, Christian Tamm, Nils Haverkamp, Stefan Weyers, and Harald R. Telle. Absolute frequency measurement of the 435.5-nm  $^{171}\text{Yb}^+$ -clock transition with a Kerr-lens mode-locked femtosecond laser. Opt. Lett., 26:1589 – 1591, 2001.
- [61] S. A. Webster, P. Taylor, M. Roberts, G. P. Barwood, P. Blythe, and P. Gill. A frequency standard using the  $^2\text{S}_{1/2} - ^2\text{F}_{7/2}$  octapole transition in  $^{171}\text{Yb}^+$ . In Patrick Gill, editor, Proceedings of the 6th Symposium on Frequency Standards and Metrology, pages 115 – 122, 2001.
- [62] J. von Zanthier, Th. Becker, M. Eichenseer, A. Yu. Nevsky, Ch. Schwedes, E. Peik, H. Walther, R. Holzwarth, J. Reichert, Th. Udem, T. W. Hänsch, P. V. Pokasov, M. N. Skvortsov, and S. N. Bagayev. Absolute frequency measurement of the  $\text{In}^+$  clock transition with a mode-locked laser. Opt. Lett., 25:1729 – 1731, 2000.
- [63] R. L. Barger, J. C. Bergquist, T. C. English, and D. J. Glaze. Resolution of photon-recoil structure of the 6573 angstrom calcium line in an atomic beam with optical Ramsey fringes. Appl. Phys. Lett., 34:850 – 852, 1979.
- [64] A. Morinaga, F. Riehle, J. Ishikawa, and J. Helmcke. A Ca optical frequency standard: Frequency stabilization by means of nonlinear Ramsey resonances. Appl. Phys. B, 48:165 – 171, 1989.
- [65] T. Kurosu, M. Morinaga, and F. Shimizu. Observation of the Ca  $4s^1\text{S}_0-4p^3\text{P}_1$  transition in continuous free-falling cold atomic flow from an atom trap. Jpn. J. Appl. Phys Part 2, 31:L273 – L275, 1992.
- [66] Th. Kisters, K. Zeiske, F. Riehle, and J. Helmcke. High-resolution spectroscopy with laser-cooled and trapped calcium atoms. Appl. Phys. B, 59:89 – 98, 1994.
- [67] H. Schnatz, B. Lipphardt, J. Helmcke, F. Riehle, and G. Zinner. First phase-coherent measurement of visible radiation. Phys. Rev. Lett., 76:18 – 21, 1996.
- [68] N. F. Ramsey. A molecular beam resonance method with separated oscillating fields. Phys. Rev., 78:695 – 699, 1950.
- [69] Ye. V. Baklanov, B. Ya. Dubetsky, and V. P. Chebotayev. Non-linear Ramsey resonance in the optical region. Appl. Phys., 9:171 – 173, 1976.
- [70] Ch. J. Bordé, Ch. Salomon, S. Avrillier, A. van Lerberghe, Ch. Bréant, D. Bassi, and G. Scoles. Optical Ramsey fringes with traveling waves. Phys. Rev. A, 30:1836 – 1848, 1984.

- [71] J. C. Bergquist, S. A. Lee, and J. L. Hall. Saturated absorption with spatially separated laser fields: Observation of optical Ramsey fringes. Phys. Rev. Lett., 38:159 – 162, 1977.
- [72] Leo Hollberg, Chris W. Oates, E. Anne Curtis, Eugene N. Ivanov, Scott A. Diddams, Thomas Udem, Hugh G. Robinson, James C. Bergquist, Robert J. Rafac, Wayne M. Itano, Robert E. Drullinger, and David J. Wineland. Optical frequency standards and measurements. IEEE J. Quant. Electron., 37:1502 – 1513, 2001.
- [73] C. W. Oates, E. A. Curtis, and L. Hollberg. Improved short-term stability of optical frequency standard: approaching 1 Hz in 1 s with the Ca standard at 657 nm. Opt. Lett., 25:1603 – 1605, 2000.
- [74] K. M. Evenson, J. S. Wells, F. R. Petersen, B. L. Danielson, G. W. Day, R. L. Barger, and J. L. Hall. Speed of light from direct frequency and wavelength measurements of the methane-stabilized laser. Phys. Rev. Lett., 29:1346 – 1349, 1972.
- [75] Th. Udem, J. Reichert, R. Holzwarth, and T. W. Hänsch. Accurate measurement of large optical frequency differences with a mode-locked laser. Opt. Lett., 24:881 – 883, 1999.
- [76] Th. Udem, J. Reichert, R. Holzwarth, and T. W. Hänsch. Absolute optical frequency measurement of the cesium D1 line with a mode-locked laser. Phys. Rev. Lett., 82:3568 – 3571, 1999.
- [77] J. K. Ranka, R. S. Windler, and A. Stentz. Visible continuum generation in air silica microstructure optical fibers with anomalous dispersion at 800 nm. Opt. Lett., 25:25 – 27, 2000.
- [78] W. J. Wadsworth *et al.* Electron. Lett., 36:53, 2000.
- [79] S. A. Diddams, D. J. Jones, J. Ye, S. T. Cundiff, J. L. Hall, J. K Ranka, R. S. Windeler, R. Holzworth, Th. Udem, and T. W. Hänsch. Direct link between microwave and optical frequencies with a 300 THz femtosecond laser comb. Phys. Rev. Lett., 84:5102 – 5105, 2000.
- [80] R. Holzwarth, Th. Udem, T. W. Hänsch, J. C. Knight, W. J. Wadsworth, and P. St. J. Russell. Optical frequency synthesizer for precision spectroscopy. Phys. Rev. Lett., 85:2264 – 2267, 2000.
- [81] Scott A. Diddams, L. Hollberg, Long-Sheng Ma, and Lennart Robertsson. Femtosecond-laser-based optical clockwork with instability  $6.3 \times 10^{-16}$  in 1s. Opt. Lett., 27:58 – 60, 2002.
- [82] David J. Jones, Scott A. Diddams, Jinendra K. Ranka, Andrew Stentz, Robert S. Windeler, John L. Hall, and Steven T. Cundiff. Carrier-envelope phase control of femtosecond mode-locked lasers and direct optical frequency synthesis. Science, 288:635 – 639, 2000.

- [83] K. R. Vogel, S. A. Diddams, C. W. Oates, E. A. Curtis, R. J. Rafac, W. M. Itano, J. C. Bergquist, R. W. Fox, W. D. Lee, J. S. Wells, and L. Hollberg. Direct comparison of two cold-atom-based optical frequency standards by using a femtosecond-laser comb. Opt. Lett., 26:102 – 104, 2001.
- [84] Th. Udem, S. A. Diddams, K. R. Vogel, C. W. Oates, E. A. Curtis, W. D. Lee, W. M. Itano, R. E. Drullinger, J. C. Bergquist, and L. Hollberg. Absolute frequency measurement of the  $\text{Hg}^+$  and Ca optical clock transitions with a femtosecond laser. Phys. Rev. Lett., 86:4996 – 4999, 2001.
- [85] Th. Udem, J. Reichert, T. W. Hänsch, and M. Kourogi. Accuracy of optical frequency comb generators and optical frequency interval divider chains. Opt. Lett., 23:1387 – 1389, 1998.
- [86] G. Zinner. PTB report PTB-Opt-58. Braunschweig, 1998.
- [87] Guido Wilpers. Ein optisches Frequenznormal mit kalten und ultrakalten Atomen. PhD thesis, University of Hannover, 2002.
- [88] G. Wilpers, C. Degenhardt, T. Binnewies, A. Chernyshov, F. Riehle, J. Helmcke, and U. Sterr. Improvement of the fractional uncertainty of a neutral-atom calcium optical frequency standard to  $2 \times 10^{-14}$ . Accepted for publication in Appl. Phys. B, 20, 2003.
- [89] M. J. Snadden, J. M. McGuirk, P. Bouyer, K. G. Haritos, and M. A. Kasevich. Measurement of the earth's gravity gradient with an atom interferometer-based gravity gradiometer. Phys. Rev. Lett., 81:971 – 974, 1998.
- [90] J. L. Hall, C. J. Bordé, and K. Uehara. Direct optical resolution of the recoil effect using saturated absorption spectroscopy. Phys. Rev. Lett., 37:1339 – 1342, 1976.
- [91] S. A. Diddams, Th. Udem, J. C. Bergquist, E. A. Curtis, R. E. Drullinger, L. Hollberg, W. M. Itano, W.D. Lee, C. W. Oates, K. R. Vogel, and D. J. Wineland. An optical clock based on a single trapped  $^{199}\text{Hg}^+$  ion. Science, 293:825 – 828, 2001.
- [92] J. E. Bernard, A. A. Madej, L. Marmet, B. G. Whitford, K. J. Siemsen, and S. Cundy. Cs-based frequency measurement of a single, trapped ion transition in the visible region of the spectrum. Phys. Rev. Lett., 82:3228 – 3231, 1999.
- [93] S. N. Lea, H. S. Margolis, G. Huang, W. R. C. Rowley, D. Henderson, G. P. Barwood, H. A. Klein, S. A. Webster, P. Blythe, and P. Gill. Femtosecond optical frequency comb measurements of lasers stabilised to transitions in  $^{88}\text{Sr}^+$ ,  $^{171}\text{Yb}^+$ , and  $\text{I}_2$  at NPL. In Patrick Gill, editor, Proceedings of the 6th Symposium on Frequency Standards and Metrology, pages 144 – 151, 2001.
- [94] F. Ruschewitz, J. L. Peng, H. Hinderthür, N. Schaffrath, K. Sengstock, and W. Ertmer. Sub-kilohertz optical spectroscopy with a time domain atom interferometer. Phys. Rev. Lett., 80:1373 – 1376, 1998.

- [95] K. R. Vogel, T. P. Dinneen, A. Gallagher, and J. L. Hall. Near-recoil-limited temperatures obtained by laser trapping on the narrow  $^1S_0-^3P_1$  intercombination transition of neutral strontium. Proceedings of the 1999 Joint Meeting of the European Frequency and Time Forum, and the IEEE International Frequency Control Symposium, 1999, 2:692 – 695, 1999.
- [96] T. Trebst, T. Binnewies, J. Helmcke, and F. Riehle. Suppression of spurious phase shifts in an optical frequency standard. IEEE Trans. Instr. and Meas., 50:535 – 538, 2001.
- [97] V. Letokhov, V. Minogin, and B. Pavlik. Sov. Phys. JETP, 45:698, 1977.
- [98] A. P. Kazantsev, G. I. Surdutovich, and V. P. Takovlev. Grating of neutral atoms in a standing light waves field. Opt. Commun., 68:103 – 106, 1988.
- [99] Tetsuya Ido and Hidetoshi Katori. Recoil-free spectroscopy of neutral Sr atoms in the Lamb-Dicke regime. arXiv:physics/0303032v1, 2003.
- [100] Elizabeth A. Cummings, Malcolm S. Hicken, and Scott D. Bergeson. Demonstration of a 1-W injection-locked continuous-wave titanium:sapphire laser. Appl. Opt., 41:7583 – 7587, 2002.
- [101] I. Courtillot, A. Quessanda, R. Kovacich, A. Bruschi, D. Kolker, J. Zondy, G. Rovera, and P. Lemonde. A clock transition for a future optical frequency standard with trapped atoms. arXiv:physics/0303023 v1, March 2003.
- [102] A. Brillet and J. L. Hall. Improved laser test of the isotropy of space. Phys. Rev. Lett., 42:549 – 552, 1979.
- [103] M. P. Haugen and C. M. Will. Physics Today, 40:69, 1987.
- [104] D. Hils and J. L. Hall. Improved Kennedy-Thorndike experiment to test special relativity. Phys. Rev. Lett., 64:1697 – 1700, 1990.
- [105] V. A. Kostelecky, editor. CPT and Lorentz Symmetry. World Scientific, Singapore, 1999.
- [106] D. Bear, R. E. Stone, R. L. Wadsworth, V. A. Kostelecky, and C. D. Lane. High-resolution spectroscopy with laser-cooled and trapped calcium atoms. Phys. Rev. Lett., 85:5038 – 5041, 2000.
- [107] Christopher Oates. Improved Na lifetime and hyperfine structure measurements using novel precision laser spectroscopic techniques with laser cooled/trapped atoms. PhD thesis, University of Colorado, 1995.
- [108] Xinye Xu, Thomas H. Loftus, John L. Hall, Alan Gallagher, and Jun Ye. Cooling and trapping of atomic strontium. Accepted for publication in the J. Opt. Soc. Am. B, 20, 2003.