

**Contribution à des ouvrages collectifs
Proceedings of conferences**

1. C.J. Bordé, M. Ouhayoun, Van Lerberghe, C. Salomon, S. Avrillier, C.D. Cantrell, J. Bordé, *Laser Spectroscopy IV* (Walther, Rothe eds.), (1979): *High resolution saturation spectroscopy with CO₂ lasers. Application to the ν_3 bands of SF₆ and OsO₄*
2. A. Clairon, Van Lerberghe, C. Bréant, C. Salomon, G. Camy, C.J. Bordé, *J. Physique, Colloque C8*, 42 (1981) p.C8-: *A new absolute frequency reference grid in the 28 THz range*
3. C. Salomon, C. Bréant, C.J. Bordé, R.L. Barger, *J. Physique, Colloque C8*, 42 (1981) p.C8-: *Ramsey fringes using transitions in the visible and 10 mm spectral regions: experimental methods*
4. C.J. Bordé, S. Avrillier, Van Lerberghe, C. Salomon, D. Bassi, G. Scoles, *J. Physique, Colloque C8*, 42 (1981) p.C8-: *Observation of optical Ramsey fringes in the 10 mm spectral regions using a supersonic beam of SF₆*
5. C. Salomon, S. Avrillier, Van Lerberghe, C.J. Bordé, *Laser Spectroscopy VI* (Weber-Luthy ed.), (1983) p.159: *Direct optical detection of Ramsey fringes in a supersonic beam of SF₆*
6. C.J. Bordé, J. Bordé, C. Bréant, C. Chardonnet, Van Lerberghe, C. Salomon, *Laser Spectroscopy VII* (Hänsch, Shen eds), (1985) p.108: *Internal dynamics of simple molecules revealed by the superfine and hyperfine structures of their infrared spectra*
7. J.L. Hall, D. Hils, C. Salomon, J.M. Chartier, *Laser Spectroscopy VIII* (Persson, Svanberg eds), (1987) p.376 (Springer Verlag): *Towards the ultimate laser resolution*
8. C. Salomon, H. Metcalf, A. Aspect, J. Dalibard, *Laser Spectroscopy VIII* (Persson, Svanberg eds), (1987) p.404: *A high sensitivity modulation method for atomic beam absorption spectroscopy*
9. J. Dalibard, C. Salomon, A. Aspect, H. Metcalf, A. Heidmann, C. Cohen-Tannoudji, *Laser Spectroscopy VIII* (Persson, Svanberg eds), (1987) p.81: *Atomic motion in a laser standing wave*
10. A. Aspect (*), J. Dalibard, C. Salomon, H. Metcalf, C. Cohen-tannoudji, *Ann. Phys. (France), Colloque 1*, 13 (1988) p.3: *Manipulation laser d'atomes neutres*
11. C. Salomon, J. Dalibard, *Frequency Standards and Metrology, Ancône 1988*, (1988): *Temperature measurements of laser cooled cesium atoms* (4th Symp. on Frequency Standards and Metrology).
12. C. Salomon, J. Dalibard, *IV Symposium on Freq. Standards and Metrol.*, (1989) Ancône, Italie, Ed. A. de Marchi (Springer Verlag) : *Temperature measurements of laser cooled cesium atoms*,
13. A. Aspect, E. Arimondo, R. Kaiser, N. Vansteenkiste, J. Dalibard, C. Salomon, C. Cohen-Tannoudji, *Quantum Optics and Laser Science*, (1989): Baltimore (avril 89) : *Laser cooling below the Doppler and recoil limits*

14. J. Dalibard, E. arimondo, A. Aspect, Y. Castin, C. Cohen-Tannoudji, R. Kaiser, K. Molmer, C. Salomon, N. Vansteenkiste, *Ann. Phys. (France), Colloque 1, 15 (1990) p.25: Ralentissement et refroidissement d'atomes neutres par laser*
15. W. Phillips, P.D. Lett, S.L. Rolston, C.E. Tanner, R.N. Watts, C.I. Westbrook, C. Salomon, J. Dalibard, A. Clairon, S. Guellati, *Proceedings of the 4th Frequency and Time Forum, (1990) (Neuchâtel, avril 90): Optical molasses : cold atoms for precision measurement*
16. C. Salomon, J. Dalibard, W. Phillips, A. Clairon, S. Guellati, *Atomic Physics XII (Ann Arbor, 1990), (1991) , Ed. J. Zorn and R. Lewis: Laser cooling of cesium atoms below 3 microkelvins.*
17. W. Phillips, P.D. Lett, S.L. Rolston, C.E. Tanner, R.N. Watts, C.I. Westbrook, C. Salomon, J. Dalibard, A. Clairon, S. Guellati, *IEEE Transactions on Instrum. and Measur., 40 (1991) p.78: Optical molasses: cold atoms for precision measurements*
18. W. Phillips, P.D. Lett, S.L. Rolston, C.E. Tanner, R.N. Watts, C.I. Westbrook, C. Salomon, J. Dalibard, *Physica Scripta, P, 34 (1991) p.20: Optical molasses : the coldest atoms ever (EGAS 1990, Suède)*
19. A. Clairon, C. Salomon, S. Guellati, W. Phillips, *Proceedings of the 5th Frequency and Time Forum, (1991): A laser cooled cesium atomic fountain: towards a high performance clock*
20. G. Grynberg, J.Y. Courtois, P. Verkerk, D. Grison, B. Lounis, C. Salomon, *Laser spectroscopy, (1992) p.289-295: Stimulated Raman effect on cold cesium atoms, édité par M. Ducloy, E. Giacobino, et G. Lamy (World Scientific)*
21. A. Clairon, C. Salomon, S. Guellati, W. Phillips, *Laser Spectroscopy X, (1992): Ramsey resonance in a Zacharias fountain (Ducloy, Giacobino a. Camy eds, World Scientific)*
22. P. Verkerk, B. Lounis, R. W. Boyd, C. Salomon, G. Grynberg, *Nonlinear optics : material, fundamentals and appli., 18 (1992) p.151-153: Nonlinear optics with ultracold cesium atoms .*
23. A. Clairon, P. Laurent, A. Nadir, M. Drewsen, D. Grison, B. Lounis, C. Salomon, *Proc. of the 6th Frequency and Time Forum (ESA-SP), (1992)*
24. A. Clairon, P. Laurent, A. Nadir, M. Drewsen, D. Grison, B. Lounis, C. Salomon, *Proc. of the 6th Frequency and Time Forum (ESA-SP), 340 (1992) p.27: A simple and compact source of cold atoms for cesium fountains and microgravity clocks*
25. C. Salomon, *Proc. of the E. Fermi School on Metrology, 1989, (1992): Laser cooling and trapping of atoms and ions for frequency standars (Ed. Crovini, Quinn, Bava, North Holland)*
26. A. Clairon, P. Laurent, A. Nadir, G. Santarelli, M. Drewsen, D. Grison, B. Lounis, C. Salomon, *SPIE Proceedings, Boston 15-20 Nov. 1992, (1992): A laser cooled cesium fountain clock: design and expected performances*
27. G. Grynberg, D. Boiron, J.Y. Courtois, B. Lounis, D.R. Meacher, C. Salomon, P. Verkerk, *Nonlinear Optics, 12 (1995) p.353-359: Four-wave mixing and bragg scattering in two and three-dimensional optical lattices .*

28. P. Laurent, G. Santarelli, S. Lea, S. Ghezali, M. Bahoura, E. Simon, A. Clairon, P. Lemonde, J. Reichel, A. Michaud and C. Salomon, Proc. of the 30th Rencontres de Moriond on Dark matter in cosmology, clocks and tests of fundamental laws, editions frontières, 437, 1995.
29. M. Arndt, J. Dalibard, P. Desbiolles, W. HänseL, P. Lemonde, O. Morice, E. Peik, H. Perrin, J. ReicheL, C. Salomon, A. Steane and P. Szriftgiser, Proc. of the 5th Symposium on frequency Standards and metrology, Woodshole, USA, ed. J. Bergquist, p. 231, 1996.
30. D. Boiron, A. Michaud, P. Lemonde, Y. Castin, C. Salomon, S. Weyers, K. SzymanieC, L. Cognet and A. Clairon, Proc. of the 5th Symposium on frequency Standards and metrology, Woodshole, USA, ed. J. Bergquist, p. 499, 1996.
31. C. Salomon, P. Lemonde, P. Laurent, E. Simon, G. Santarelli, A. Clairon, P. Petit, N. Dimarcq, C. Audoin, F. Gonzalez, F. Jamin-Changeart, Proc. of the first symposium on the utilisation of the international space station, ESA special publication SP 385, 289, 1997. *PHARAO: a cold atom clock in micro-gravity*
32. C. Salomon, C. Veillet, Proc. of the first symposium on the utilisation of the international space station, ESA special publication SP 385, 295, 1997. *ACES: Atomic Clock Ensemble in Space*
33. P. Laurent, E. Simon, G. Santarelli, A. Clairon, C. Salomon, P. Lemonde, P. Petit, N. Dimarcq, C. Audoin, F. Gonzalez, F. Jamin-Changeart, Proc. of the precise Time and Time Interval conf., Washington, (USA) November 1996. *PHARAO: a Space Clock with Cold Cesium Atoms*
34. P. Laurent, E. Simon, G. Santarelli, A. Clairon, C. Salomon, P. Lemonde, P. Petit, N. Dimarcq, C. Audouin, F. Gonzalez, F. Jamin-Changeart, Proc. of the JPL Workshop on Space Clocks, Pasadena, 163, 1997. *PHARAO: a Space Clock with Cold Cesium Atoms*
35. E. Peik, M. Ben Dahan, I. Bouchoule, Y. Castin, C. Salomon, Proc. of the 15th International Conf. on Atomic Physics, Amsterdam, August 1996, J. Walraven and M. Reynolds ed., Scientific World, p. 358 (1997): *Bloch Oscillations of Atoms in a Optical Potential*.
36. C. Salomon, M, Arndt M. Ben Dahan, D. Guery-Odelin, J. Söding, P. Desbiolles, M. Reynolds, J. Dalibard, P. Lemonde, P. Laurent, E. Simon, Ghezali S., G. Santarelli, S. Bize, A. Clairon, N. Dimarcq, P. Petit, C. Audouin, Proc. of the 13th Int. Conf. on Laser Spectroscopy, Hang Zhou, China, June 1997: *Recent Advances in Laser Cooling and trapping*
37. P. Lemonde, P. Laurent, E. Simon, G. Santarelli, A. Clairon, C. Salomon, N. Dimarq, P. Petit, C. Audouin, F. Jamin-Changeart, F. Gonzalez : *A compact clock using laser cooled atoms, Workshop on New generation of space clocks*, in Proc. of 11th European Frequency and Time Forum, Neuchâtel, Suisse, 1997.
38. P. Laurent, P. Lemonde, E. Simon, G. Santarelli, A. Clairon, P. Petit, N. Dimarcq, C. Audouin, F. Jamin-Changeart, F. Gonzalez, C. Salomon, *A space clock prototype using cold cesium atoms*, in Proc. of 51th IEEE Int.Frequency Control Symposium, 1997.

39. P. Lemonde, G. Santarelli, P. Laurent, F. Pereira Dos Santos, A. Clairon and C. Salomon, *The sensitivity function : a new tool for the evaluation of frequency shifts in atomic spectroscopy*, in Proc. of 52nd IEEE Int. Frequency Control Symposium, 110, 1998.
40. A. Mann, G. Santarelli, S. Chang, A. Luiten, P. Laurent, C. Salomon, D. Blair and A. Clairon : *A High Stability Atomic Fountain Clock using a Cryogenic Sapphire Interrogation Oscillator*, Proc. of 52nd IEEE Int. Frequency Control Symposium, 13, 1998.
41. I. Bouchoule, H. Perrin, A. Khun, M. Morinaga, C. Salomon : *Sideband cooling of neutral atoms in a far-detuned optical lattice* , Proc. of the Young Atom Optician workshop, Orsay 1998
42. P. Laurent, P. Lemonde, G. Santarelli, M. Abgrall, J. Kitching, Y. Sortais, S. Bize, M. Santos, C. Nicolas, Zhang, G. Schehr, A. Clairon, A. Mann, A. Luiten, S. Chang and C. Salomon,: *Cold Atom Clocks on Earth and in Space*, Proc. of the 14th Int. Conf. on Laser Spectroscopy, R. Blatt, J. Eschner, D. Leibfried, F. Schmidt-Kaler ed., p.41, World Scientific (1999)
43. P. Lemonde, P. Laurent, G. Santarelli, M. Abgrall, Y. Sortais, S. Bize, C. Nicolas, Zhang, G. Schehr, A. Clairon, N. Dimarcq, P. Petit, A. Mann, A. Luiten, S. Chang and C. Salomon : *Cold Atom Clocks on Earth and in Space*, in Annales françaises des microtechniques et de chronométrie, 49, 25 (2000)
44. P. Lemonde, P. Laurent, G. Santarelli, M. Abgrall, Y. Sortais, S. Bize, C. Nicolas, Zhang, G. Schehr, A. Clairon, N. Dimarcq, P. Petit, A. Mann, A. Luiten, S. Chang and C. Salomon: *Cold Atom Clocks on Earth and in Space*, in Topics Appl. Phys. 79, 131-152 (2001), Frequency measurement and control, A. Luiten ed., Springer Verlag
45. C. Salomon, Y. Sortais, S. Bize, M. Abgrall, Zhang, C. Nicolas , C. Mandache, P. Lemonde, P. Laurent, G. Santarelli, A. Clairon , N. Dimarcq, P. Petit, A. Mann, A. Luiten, S. Chang : *Cold atom clocks on Earth and in space*, in Proc. of the 17th Int. Conf. on Atomic Physics, 23, E. Arimondo, M. Inguscio, ed., World Scientific (2001)
46. C. Salomon, "Cold atoms in space and atomic clocks, in ESA book, "A world without gravity", Research in Space for Health and Industrial Processes, p 292-304, ed. G. Seibert, ESA-SP1251 (2001).
47. C. Salomon, L. Khaykovich, F. Schreck, K. Corwin, G. Ferrari, T. Bourdel, J. Cubizolles, in Proc. of the 15th Int. Conf. on Laser Spectroscopy, S. Chu, World Scientific **79**, 37-45(2002) Quantum Degenerate Bosonic and Fermionic Gases : *A ⁷Li Bose-Einstein Condensate Immersed in a ⁶Li Fermi Sea* .
48. P. Laurent, M. Abgrall, A. Clairon, P. Lemonde, G. Santarelli, P. Urich, N. Dimarcq, L.G. Bernier, G. Busca, A. Jornod, P. Thomann, E. Samain, P. Wolf, F. Gonzalez, P. Guillemot, S. Léon, F. Nouel, C. Sirmain, S. Feltham, C. Salomon, in Proc. Of the 6th Symposium Frequency Standards and Metrology, P. Gill, World Scientific **79**, 241-252(2002): *Cold atom clocks in space : PHARAO and ACES* .
49. S. Bize, Y. Sortais, M. Abgrall, S. Zhang, D. Calonico, C. Mandache, P. Lemonde, P. Laurent, G. Santarelli, C. Salomon, A. Clairon, A. Luiten, M. Tobar, in Proc. of the 6th Symposium Frequency Standards and Metrology, P. Gill, World Scientific **79**, 593-596 (2002) : *Cs and Rb fountains: recent results*.

50. D. Calonico, Y. Sortais, S. Bize, H. Marion, F. Pereira Dos Santos, G. Santarelli, A. Clairon, C. Salomon, C. Mandache, A. Luiten, M. Tobar, in Poster Presentation Abstracts of the 18th Int. Conf. on Atomic Physics, (ICAP) 23, H.R. Sadeghpour, D.E. Pritchard and E.J. Heller, ed., World Scientific (2002) : *Dual 87 Rb –133 Cs fountain and possible time variation of the fine structure constant*
51. T. Bourdel, L. Khaykovich, F. Schreck, G. Ferrari, J. Cubizolles and C. Salomon, in Poster Presentation Abstracts of the 18th Int. Conf. on Atomic Physics, (ICAP) 86, H.R. Sadeghpour, D.E. Pritchard and E.J. Heller, ed., World Scientific (2002) : *Formation of a matter-wave soliton.*
52. L. Khaykovich, F. Schreck, J. Cubizolles, T. Bourdel, K. Corwin, G. Ferrari, C. Salomon, in Proc. of the 23rd Int. Conf. on Low Temperature physics – eds Y. Iye and S. Maekawa, Physica B **329** 13, 2003 : *A Bose-Einstein condensate immersed in a Fermi sea : observation of ultra-cold mixture of Bose and Fermi gases.*
53. L. Khaykovich, J. Cubizolles, T. Bourdel, F. Schreck, G. Ferrari, L. Carr, Y. Castin, C. Salomon, in Proc. of the 18th Int. Conf. on Atomic Physics, 112, H.R. Sadeghpour, E.J. Heller, D.E. Pritchard, ed., World Scientific (2003) : *Mixtures of degenerate Fermi and Bose gases.*
54. M. Fischer, N. Kolachevsky, M. Zimmermann, R. Holzwarth, Th. Udem, T.W. Haensch, M. Abgrall, J. Gruenert, I. Maksimovic, S. Bize, H. Marion, F. Pereira Dos Santos, P. Lemonde, G. Santarelli, P. Laurent, A. Clairon, C. Salomon, in Proc. of the 302nd WE-Heraeus-seminar, LNP **648**, S.G. Karshenboim and E. Peik, ed. Springer (2004) : *Precision Spectroscopy of Atomic Hydrogen and Variations of Fundamental Constants.* ArKiv: physics/0311128.
55. S. Bize, P. Wolf, M. Abgrall, L. Cacciapuoti, A. Clairon, J. Grünert, Ph. Laurent, P. Lemonde, A.N. Luiten, I. Maksimovic, C. Mandache, H. Marion, F. Pereira dos Santos, P. Rosenbusch, C. Salomon, G. Santarelli, Y. Sortais, M.E. Tobar, C. Vian, S. Zhang, in Proc. of the 302nd WE-Heraeus-seminar, LNP **648**, S.G. Karshenboim and E. Peik, ed. Springer (2004) : *Cold Atom Clocks, Precision Oscillators and Fundamental Tests.*
56. J. Dalibard, C. Salomon, in Proc. of the Poincaré Seminar 2003, J. Dalibard, B. Duplantier, V. Rivasseau ed. Birkhäuser (2004) : *Experiments with Cold Atoms.*
57. C. Salomon, N. Dimarcq, M. Abgrall, A. Clairon, P. Laurent, P. Lemonde, G. Santarelli, P. Urich, L.G. Bernier, G. Busca, A. Jornod, P. Thomann, E. Samain, P. Wolf, P. Gonzalez, Ph. Guillemot, S. Leon, F. Nouel, Ch. Sirmain, S. Feltham, in Proc. E.F.T.F. 2003 : *Scientific Objectives of ACES project.*
58. H. Marion, S. Bize, L. Cacciapuoti, D. Chambon, F. Pereira dos Santos, G. Santarelli, P. Wolf, A. Clairon, A. Luiten, M. Tobar, S. Kokkelmans, C. Salomon, in Proc. E.F.T.F. 2004 : *First observation of feshbach resonances at very low magnetic field in a ¹³³Cs fountain.*
59. I. Maksimovic, M. Abgrall, A. Clairon, J. Grünert, Ph. Laurent, P. Lemonde, G. Santarelli, C. Salomon, C. Sirmain, F. Picard, Ch. Delaroche, O. Grosjean, M. Saccoccio, M. Chaubet, L. Guillier, M. Behague, in Proc. EFTF 2004 : *Current status of the Space Clock PHARAO.*

60. J. Zhang, E.G.M. van Kempen, T. Bourdel, L. Khaykovich, J. Cubizolles, F. Chevy, M. Teichmann, L. Tarruell, S.J.J.M.F. Kokkelmans, C. Salomon, submitted in Proc. ICAP 2004 : *Expansion of a lithium gas in the BEC-BCS crossover*.
61. C. Vian, P. Rosebusch, H. Marion, F. Pereiro Dos Santos, M. Abgrall, S.Zhang, Y. Sortais, S. Bize, I. Maksimovic, D. Calonico, J. Gruenert, C. Mandache, M. Lemonde, G. Santarelli, Ph. Laurent, A. Clairon, C. Salomon, A. Luiten and M. Tobar, in Proc. J.Phys.IV France 119, 287-288 (2004) : *Horloges en fontaine du BNM-SYRTE : résultats récents*
62. G. Santarelli, Ph. Laurent, I. Maksimovic, S. Bize, C. Vian, P. Rosenbuch, P. Lemonde, C. Salomon, A. Clairon, C. Sirmain, F.Picard, M. Abgrall, Ch. Delaroche, O. Grosjean, M. Saccoccio, M. Chaubet, L. Guillier, J.F. Vega, M. Behague, N. Ladiette, Ph. Guillemot, in Proc.FCS-PTTI 2005, 29-31 August 2005, Vancouver, BC, Canada : *The space clock PHARAO : sub-systems performance characterization*.
63. L. Cacciapuoti, N. Dimarcq, and C. Salomon, in Proc. of the ESA Workshop on Space Optical Clocks, June 2005: *The ACES Mission*.
64. C. Salomon, L. Cacciapuoti, N. Dimarcq, in Proc. NASA/JPL, oct.2006: *Atomic Clock Ensemble in Space: An update*.
65. F. Chapelet, D. Chambon, P. Wolf, P. Rosenbusch, Ph. Laurent, S. Bize, G. Santarelli, M.E. Tobar, C. Salomon, and A. Clairon, in Proc. EFTF 2006, *LNE-SYRTE Atomic Fountains: Improvements And Applications*
66. F. Chapelet, D. Chambon, P. Wolf, P. Rosenbusch, Ph. Laurent, S. Bize, G. Santarelli, M.E. Tobar, C. Salomon, and A. Clairon, in Proc. EFTF 2006, *Investigation of the distributed cavity phase shift in an atomic fountain*
67. M. Chaubet, D. Chebance, M. Abgrall, G. Cibiél, Ch. Delaroche, Ch. Sirmain, Ph. Guillemot, J.F.Vega, G. Santarelli, A.Clairon, Ph. Laurent, Y. Maksimovic, S. Bize, Ch. Salomon, M. E. Tobar, Th. Potier, Y. Cossard, P. Canzian, V. Candelier, in Proc. EFTF 2006, *PHARAO Microwave Source : a short term frequency stability of 7.10-14 at 1 second*.
68. L. Tarruell, M. Teichmann, J. McKeever, K. Magalhaes, S. Nascimbene, J. Zhang, T. Bourdel, L. Khaykovich, F. Chevy, C. Salomon, in Proc. Varenna School on Ultracold Fermi gases (submitted 2006) : *Expansion of a lithium gas in the BEC-BCS crossover*.
69. D. Petrov, C. Salomon, and G. Shlyapnikov in Proc. Varenna School on Ultracold Fermi gases (submitted 2006): *Molecular regimes in ultracold Fermi gases*