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Search for Monochromatic
Gravitational-Wave Signals in Data of the
Cryogenic Detector “Explorer”

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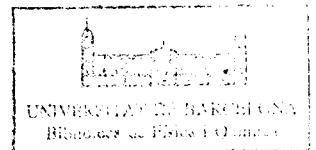
Bibliography

- [1] A. Abramovici *et al.*, *Science* **256**, 325 (1992)
- [2] E. Amaldi *et al.*, *Nuovo Cimento* **7C**, 338 (1984)
- [3] E. Amaldi *et al.*, *Nuovo Cimento* **9C**, 829 (1986)
- [4] J. L. Anderson, *Phys. Rev. Lett.* **22**, 1745 (1980)
- [5] N. Ashby and J. Dreitlein, *Phys. Rev. D* **12**, 336 (1975)
- [6] P. Astone *et al.*, *Phys. Rev. D* **47**, 362 (1993)
- [7] P. Astone, J. A. Lobo and B. Schutz, *Class. Quantum Grav.* **11**, 2093 (1994)
- [8] P. Astone, S. Frasca, G. V. Pallottino and G. Pizzella, in *Proceedings of XII Italian Conference on General Relativity and Gravitational Physics*, edited by M. Bassan, V. Ferrari, M. Francaviglia, F. Fucito and I. Modena, World Scientific, Singapore (1996)
- [9] P. Astone *et al.*, *Astroparticle Physics* **7**, 231 (1997)
- [10] M. Bassan, *Class. Quantum Grav.* **11**, A39 (1994)
- [11] S. Bonazzola, J. Frieben and E. Gourgoulhon, in *Dark Matter in Cosmology, Quantum Measurements, Experimental Gravitation. Proceedings of the 31st Rencontres de Moriond*, edited by R. Ansari, J. Tran Thanh Van and Y. Giraud-Heraud, Editions Frontières, Gif-sur-Yvette, France (1996)
- [12] S. Bonazzola and E. Gourgoulhon, *Astron. Astrophys.* **312**, 675 (1996)

- [13] H. Bondi, *Nature* **179**, 1072 (1957)
- [14] P. Bonifazi *et al.*, *Nuovo Cimento* **1C**, 465 (1978)
- [15] P. Bonifazi and M. Visco, *Nuovo Cimento* **15C**, 943 (1992)
- [16] F. Bordoni and M. Karim, *Class. Quantum Grav.* **11**, A61 (1994)
- [17] P. R. Brady, T. Greighton, C. Cutler and B. F. Schutz, *Phys. Rev. D* **57**, 2101 (1998)
- [18] F. Bronzini *et al.*, *Nuovo Cimento* **8C**, 300 (1985)
- [19] P. Carelli *et al.*, *Phys. Rev. A* **32**, 3258 (1985)
- [20] B. Caron *et al.*, *Class. Quantum Grav.* **14**, 1461 (1997)
- [21] M. G. Castellano and C. Cosmelli, *Nuovo Cimento* **7C**, 9 (1984)
- [22] M. Cerdonio *et al.*, in *Gravitational Wave Experiments. Proceedings of the First Edoardo Amaldi Conference*, edited by E. Coccia, G. Pizzella and F. Ronga, World Scientific, Singapore (1995)
- [23] J. Clarck, in *Superconducting Devices*, edited by S. T. Ruggiero and D. A. Rudman, Academic Press, Boston (1990)
- [24] E. Coccia, J. A. Lobo and J. A. Ortega, *Phys. Rev. D* **52**, 3735 (1995)
- [25] K. Danzmann and the LISA Study Team, *Class. Quantum Grav.* **14**, 1399 (1997)
- [26] S. V. Dhurandhar and B. S. Sathyaprakash, *Phys. Rev. D* **49**, 1707 (1993)
- [27] S. V. Dhurandhar, D. G. Blair and M. E. Costa, *Astron. Astrophys.* **311**, 1043 (1996)
- [28] A. Einstein, *Annal. der Phys.* **49**, 769 (1916)
- [29] A. Einstein, *Sitzber. Preuss. Akad. Wiss. Berlin*, 688 (1916)
- [30] A. Einstein, *Sitzber. Preuss. Akad. Wiss. Berlin*, 154 (1918)
- [31] S. Frasca and C. La Posta, *Nuovo Cimento* **14C**, 235 (1991)

- [32] G. Frossati, *J. Low. Temp. Phys.* **101**, 81 (1995)
- [33] R. L. Garwin and J. L. Levine, *Phys. Rev. Lett.* **31**, 176 (1973)
- [34] G. W. Gibbons and S. W. Hawking, *Phys. Rev. D* **4**, 2191 (1971)
- [35] R. P. Giffard, *Phys. Rev. D* **14**, 2478 (1976)
- [36] I. S. Gradshteyn and I. M. Ryzhik, *Table of Integrals, Series and Products*, Academic Press, San Diego (1980)
- [37] R. A. Haddad i T. W. Parsons, *Digital signal processing: theory, applications, and hardware*, Computer Science Press, New York, (1991)
- [38] *Handbook of Mathematical Functions*, edited by M. Abramowitz and I. A. Stegun, Dover, New York (1970)
- [39] C. W. Helstrom, *Statistical theory of signal detection*, Pergamon Press, Oxford (1968)
- [40] I. S. Heng *et al.*, *Phys. Lett.* **218A**, 190 (1996)
- [41] R. A. Hulse and J. H. Taylor, *Ap. J.(Letters)* **195**, L51 (1975)
- [42] W. W. Johnson and S. M. Merkowitz, *Phys. Rev. Lett.* **70**, 2367 (1993)
- [43] K. Jotania, S. R. Valluri and S. V. Dhurandhar, *Astron. Astrophys.* **306**, 317 (1996)
- [44] K. Kawabe and the TAMA collaboration, *Class. Quantum Grav.* **14**, 1477 (1997)
- [45] S. M. Kay, *Modern Spectral Estimation: theory and application*, Prentice Hall, New Jersey (1990)
- [46] B. W. Kernighan and D. M. Ritchie, *The C Programming Language*, Prentice Hall, New Jersey (1978)
- [47] L. D. Landau and E. M. Lifschitz, *Theory of Elasticity*, Pergamon, Oxford (1970)

- [48] L. D. Landau and E. M. Lifschitz, *The Classical Theory of Fields*, Pergamon, Oxford (1962)
- [49] J. L. Levine and R. L. Garwin, *Phys. Rev. Lett.* **31**, 173 (1973)
- [50] J. L. Levine and R. L. Garwin, *Phys. Rev. Lett.* **33**, 794 (1974)
- [51] J. Livas, in *Gravitational Wave Data Analysis*, edited by B. F. Schutz, Kluwer Academic Publisher, Dordrecht (1989)
- [52] J. A. Lobo and M. Montero, in *Some Topics on General Relativity and Gravitational Radiation. Proceedings of the ERE-96*, edited by J. A. Miralles, J. A. Morales and D. Sáez, Editions Frontières, Paris (1997)
- [53] J. A. Lobo and M. Montero, in *Proceedings of the ERE-97*, edited by J. Stela, UIB, Palma de Mallorca (to appear)
- [54] J. A. Lobo and M. Montero, submitted to *Mont. Not. R. Astron. Soc.* (1998)
- [55] J. A. Lobo adm M. A. Serrano, *Europhys. Lett.* **35**, 253 (1996)
- [56] H. Lück and the GEO600 Team, *Class. Quantum Grav.* **14**, 1471 (1997)
- [57] A. E. H. Love, *A treatise on the mathematical theory of elasticity*, Dover, New York (1944)
- [58] E. Mauceli *et al.*, *Phys. Rev. D* **54**, 1264 (1996)
- [59] E. Mauceli *et al.*, *Phys. Rev. D* **56**, 6081 (1997)
- [60] E. Mauceli, *Ph. D. thesis*, Louisiana State University (1997)
- [61] S. M. Merkowitz and W. W. Johnson, *Phys. Rev. D* **51**, 2546 (1995)
- [62] S. M. Merkowitz and W. W. Johnson, *Phys. Rev. D* **56**, 7513 (1997)
- [63] P. F. Michelson and R. C. Taber, *Phys. Rev. D* **29**, 2149 (1984)
- [64] C. W. Misner, K. S. Thorne and J. A. Wheeler, *Gravitation*, Freeman, New York (1973)



- [65] M. Montero, in *General Relativity, Relativistic Astrophysics and Cosmology. Proceedings of the ERE-95* edited by J. Buitrago, E. Mediavilla and A. Oscoz, World Scientific, Singapore (1997)
- [66] T. M. Niebauer *et al.*, *Phys. Rev. D* **47**, 3106 (1993)
- [67] Y. Ogawa and P. Rapagnani, *Nuovo Cimento* **7C**, 21 (1984)
- [68] J. A. Ortega. *Ph. D. Thesis*, Universitat de Barcelona (1997)
- [69] G. V. Pallottino and G. Pizzella, *Nuovo Cimento* **4C**, 237 (1981)
- [70] G. V. Pallottino and G. Pizzella, *Nuovo Cimento* **7C**, 155 (1984)
- [71] A. Papoulis, *Signal analysis*, McGraw-Hill, Singapore (1984)
- [72] A. Papoulis, *Probability and Statistics*, Prentice Hall, New Jersey (1990)
- [73] P. C. Peters and J. Mathews, *Phys. Rev.* **131**, 435 (1963)
- [74] J. G. Proakis and D. G. Manolakis, *Digital Signal Processing: Principles, Algorithms, and Applications*, Macmillan Publishing Company, New York (1992)
- [75] J. Roland, G. Frossati and R. Teyssier, *Astron. Astrophys.* **290**, 364 (1994)
- [76] B. S. Sathyaprakash and S. V. Dhurandhar, *Phys. Rev. D* **44**, 3819 (1991)
- [77] H. Schildt, *C: The Complete Reference*, McGraw-Hill, New York (1990)
- [78] B. F. Schutz, *Class. Quantum Grav.* **13**, A219 (1996)
- [79] S. L. Shapiro and S. A. Teukolsky, *Black Holes, White Dwarfs, and Neutron Stars*, John Wiley & Sons, New York (1983)
- [80] T. Suzuki, in *Gravitational Wave Experiments. Proceedings of the First Edoardo Amaldi Conference*, edited by E. Coccia, G. Pizzella and F. Ronga, World Scientific, Singapore (1995)
- [81] J. H. Taylor and J. M. Weisberg, *Ap. J.* **253**, 908 (1982)
- [82] J. H. Taylor and J. M. Weisberg, *Ap. J.* **345**, 434 (1989)

- [83] J. H. Taylor, R. N. Manchester and A. G. Lyne, *Ap. J. S.* **88**, 529 (1993)
- [84] K. S. Thorne, in *Three Hundred Years of Gravitation*, edited by S. W. Hawking and W. Israel, Cambridge University Press, Cambridge (1987)
- [85] K. S. Thorne, in *Proceedings of the IAU Symposium on Compact Stars in Binaries*, edited by J. van Paradijs, E. van den Heuvel and E. Kuulkers, Kluwer Academic Publishers (1996)
- [86] P. Tricarico, *Phys. Rev. D* **48**, 5485 (1993)
- [87] W. Velloso *et al.*, *Gen. Rel. Grav.* **28**, 613 (1996)
- [88] R. V. Wagoner and H. J. Paik, in *Experimental Gravitation. Proceedings of the Pavia International Symposium*, Academia Nazionale dei Lincei, Roma (1977)
- [89] M. Walker and C. M. Will, *Phys. Rev. Lett.* **22**, 1741 (1980)
- [90] J. Weber, *Phys. Rev.* **117**, 306 (1960)
- [91] J. Weber, *Phys. Rev. Lett.* **17**, 1228 (1966)
J. Weber, *Phys. Rev. Lett.* **18**, 498 (1967)
J. Weber, *Phys. Rev. Lett.* **20**, 1307 (1968)
- [92] J. Weber, *Phys. Rev. Lett.* **22**, 1320 (1969)
J. Weber, *Phys. Rev. Lett.* **24**, 276 (1970)
- [93] J. Weber, *Phys. Rev. Lett.* **25**, 180 (1970)
- [94] S. Weinberg, *Gravitation and Cosmology*, Wiley, New York (1972)

