CURRICULUM VITAE

NAME: Bernard F. Whiting

NATIONALITY: Australian and American

ADDRESS: Department of Physics, 2200 New Physics Building, University of Florida, Gainesville, FL 32611-8440, USA

DATE OF BIRTH: October 15, 1950

PLACE OF BIRTH: Melbourne, AUSTRALIA

EDUCATION: Undergraduate and Postgraduate at the University of Melbourne; Resident in Newman College, 1968-1977.

B.Sc. Honors	04/08/1972	University of Melbourne
Ph.D.	12/15/1979	University of Melbourne

AWARDS AND POSTS

1968-1971	Commonwealth University Grant
1973-1974	Physics (RAAF Academy) Research Support
1975-1977	Melbourne University Post Graduate Research Award
1978-1979	Newman College, Archbishop Mannix Travelling Scholarship. Senior Visiting Scholar to General Relativity Group in DAMTP, Cambridge.
1980-1982	S.R.C. Research Grants at Cambridge University, under award with Professor S. W. Hawking.
2-5/1983	Visiting Research Associate in the Centers for Relativity and Theoretical Physics, Austin, Texas.
May 1983	Invited visitor to the Enrico Fermi Institute, Chicago for two weeks of discussion with Professor S. Chandrasekhar.
6-7/1983	Visitor in DAMTP, Cambridge.
8/83-7/84	Chercheur Associé du C.N.R.S. au Départment d'Astrophysique de l'Observatoire de Meudon.
8/84-12/85	Boursier Joliot-Curie, au DAF de l'Observatoire de Meudon.
1986-1989	Research Associate with Professor James W. York Jr., supported by NSF in the Institute of Field Physics, UNC-Chapel Hill.
1989-1990	Research Associate in the Institute of Fundamental Theory, Department of Physics, University of Florida, Gainesville.
1990-1993	Visiting Assistant Professor in Astrophysics, Department of Physics, University of Florida, Gainesville.
1992-1993	**Faculty Exchange Visitor:** Instituut voor Theoretische Fysica, Utrecht (under UF-Utrecht Exchange Program).
8/93-7/04	Tenured Associate Professor of Physics at University of Florida.
6/98-8/99	**Sabbatical Leave:** Visiting Fellow in Physics at ANU, Canberra.
1-31/7/02	Senior Distinguished Visitor; Institute for Theoretical Physics, University of Bern, Switzerland.

7-8/2003	LIGO Visitor Program; LIGO Livingston (Louisiana) site, for one month,
Since 8/04	Tenured Full Professor of Physics at University of Florida.
8/05-12/05	**Sabbatical Leave:** University of Texas, Brownsville.
10/05-5/06	Visiting Professor in Physics at UTB/TSC, Brownsville.
6/08-7/08	Visiting Professor in Physics at the University of Orléans, France.
July 2008	Senior Visitor, Institute of Astrophysics, Paris, France.
June 2011	Visiting Scholar, Institute of Astrophysics, Paris, France.
7/12-8/13	**Sabbatical and Departmental Leave:** IAP and APC, Paris, France.
5/14-8/14	Senior Visitor, IAP and APC, Paris, France.
May 2015	Senior Visitor, IAP and APC, Paris, France.
6/15-7/15	Senior Visitor, Melbourne University, Melbourne, Australia.
5/16-7/16	Senior Visitor, IAP and APC, Paris, France.
July 2016	Senior Visitor, AEI, Berlin.
5/17-7/17	Senior Visitor, IAP and APC, Paris, France.
7/17-8/17	Senior Visitor, AEI, Berlin.
May 18	Senior Visitor, IAP and APC, Paris, France.
May18	Senior Visitor, AEI, Berlin.
6/18-8/18	Senior Visitor, Melbourne and Monash Universities, Melbourne, Australia.

TEACHING EXPERIENCE

1971-1976	Demonstrator in Physics for First and Third Year Students, Melbourne University.
1972-1976	Tutor and Senior Tutor in Physics (all courses) at Newman College, Melbourne University.
1979-1980	Supervisor (i.e. Tutor) in Physics/Mathematics at Cambridge, and Demonstrator for Computer Practical Classes.
1981-1982	Cooperated in directing the Ph.D. thesis of M. S. Fawcett (DAMTP), Cambridge; see Publication 5 below and C.M.P. 89,103-115 (1983).
1982-1984	Cooperated in directing the Ph.D. thesis of K. W. Howard (U.T., Austin); see PRD 29, 1618-25 (1984) and PRD 30, 2532-47 (1984).
1983-1985	Cooperated in directing the Ph.D. thesis of B. P. Jensen (U.T., Austin); see PRD 33, 1590-95 and 1596-1603 (1986).
1986-1989	Cooperated in directing the ongoing doctoral research of six postgraduate students in theoretical Physics at U.N.C.
Fall 1987	Taught Physics 204 - a compulsory course in Electromagnetism for postgraduate students (U.N.C., Chapel Hill). Conducted Physics 310 a Research Seminar course for graduate students in General Relativity.
Spring 1991	Taught Physics 4222 - an advanced level course in Classical Mechanics for undergraduate Physics majors at the University of Florida.

Fall 1991	Physics 4221 - a course in Classical Mechanics for undergraduate Physics majors at the University of Florida: Taught Physics 7939 - a Special Topics lecture course at UF on Black Hole Physics.
Spring 1992	Physics 4222 - as above. Conducted Physics 4905 and 6905 - supervised reading on General Relativity and Advanced Research Topics at UF.
Fall 1992	General Relativity for Physics Majors, Univ. of Utrecht, with G. 't Hooft.
Fall 1993	Physics 2060 - First classical mechanics course for freshmen with prior Physics and Calculus (with C. Thorn) new Honours course for Majors.
Spring 1994	Physics 2061 - First electricity and magnetism course for freshmen with prior Physics and Calculus (with C. Thorn); new Honours course for Majors.
Fall 1994	Physics 6607 - Special and General Relativity I, first of a two part graduate course on the Theory of General Relativity.
Spring 1995	Physics 7608 - Special and General Relativity II, advanced graduate course on topics in General Relativity and Relativistic Astrophysics.
Fall 1995	Physics 6246 - Graduate Classical Mechanics, a Goldstein based one semester graduate course on Classical Mechanics.
Spring 1996	Physics 4422 - Upper Division Optics, advanced undergraduate course on topics in optical design and applications.
Fall 1996	Physics 6607 - Special and General Relativity I, as above.
Spring 1997	Physics 7608 - Special and General Relativity II, as above.
Fall 1999	Physics 2053 - Physics I course for pre-med students, discussion sections.
Spring 2000	Physics 2053 - Physics I course for pre-med students, lecture series.
Fall 2000	Physics 2054 - Physics II course for pre-med students, lecture series.
Spring 2001	Physics 2053 - Physics I course for pre-med students, lecture series.
Fall 2001	Physics 2054 - Physics II course for pre-med students, lecture series.
Spring 2002	Physics 2054 - Physics II course for pre-med students, discussion sections.
Fall 2002	Physics 2004 - Physics I Applied Physics lectures for non-Physics majors.
Spring 2003	Physics 2004 - Physics I Applied Physics lectures for non-Physics majors.
Fall 2003	Physics 2054 - Physics II course for pre-med students, discussion sections.
Spring 2004	Physics 2054 - Physics II course for pre-med students, discussion sections.
Fall 2004	Physics 2054 - Physics II course for pre-med students, discussion sections.
Spring 2005	Met 1010 - Introduction to Weather, large lecture class.
Spring 2006	PHY-7097 Section 2883 - Theoretical Astrophysics Graduate Course Title: "Physics of gravitational waves and their detection"
Fall 2006	Physics 2048 - Physics II, with calculus, course for engineering and physics students, discussion sections.
Spring 2007	Physics 2048 - Physics II, with calculus, course for engineering and physics students, discussion sections.
Fall 2007	PHY-7097 Section 7125 - Theoretical Astrophysics Graduate Course

	Title: "Attempting astrophysics using gravitational waves"
Spring 2008	Physics 1033C - Discovering Physics, covering fundamental concepts and laboratory experience in Physics for non-science majors.
Fall 2008	Physics 6607 - Special and General Relativity I, as above.
Spring 2009	Physics 2053 - Physics I for pre-med students, discussion sections.
Fall 2009	Physics 2053 - Physics I for pre-med students, discussion co-ordinator.
Spring 2010	Physics 4422 - Optics I elective for Physics majors, discussion sections.
Fall 2010	Physics 6607 - Special and General Relativity I, as above.
Spring 2011	Physics 7608 - Special and General Relativity II, as above.
Fall 2011	Physics 6246 - Graduate Classical Mechanics, as above.
Spring 2012	Physics 3221 - Classical Mechanics I, upper division, undergraduate.
Fall 2013	Physics 3113 - Introduction to Theoretical Physics, upper division.
Spring 2014	Physics 4222 - Classical Mechanics II, upper division, undergraduate.
Fall 2014	Physics 6607 - Special and General Relativity I, introduction.
Spring 2015	Physics 7608 - Special and General Relativity II, cosmology, special topics.
Spring 2015	Physics 4222 - Classical Mechanics II, upper division, double teaching load.
Fall 2015	Physics 6246 - Graduate Classical Mechanics, as above.
Spring 2016	Physics 4222 - Classical Mechanics II, upper division, as above.
Fall 2016	Physics 6246 - Graduate Classical Mechanics, as above.
Spring 2017	Physics 4222 - Classical Mechanics II, upper division, as above.
Fall 2017	Physics 6246 - Graduate Classical Mechanics, as above.
Spring 2018	Physics 2005 - Applied Physics II, upper division.
Fall 2018	Physics 6607 - Special and General Relativity I, introduction, as above.

CONTRACTS AND GRANTS

Source	**Amount**	**Duration**	**Title**	**Rôle**
NSF	$313,062	07/01/91 — 06/30/95	Theoretical Astrophysics and Gravitational Physics	Co-PI
NSF	$230,115	07/01/94 — 06/30/99	Theoretical Astrophysics and Gravitational Physics	Co-PI
NSF	$1,404,205	09/01/97 — 08/31/01	Detection of Gravitational Waves: Research in LIGO	Co-PI
NSF	$70,211	07/15/98 — 08/31/01	Theoretical Astrophysics and Gravitational Physics	Co-PI
NSF	$1,335,000	08/01/00 — 7/31/03	Detection of Gravitational Waves: Advanced Research and Development for LIGO	Co-PI
NSF	$1,467,120	06/15/03	Detection of Gravitational Waves:	Co-PI

		— 05/31/06	Optical Devices, Materials, and Analysis for LIGO	
NSF	$100,000	07/15/03 — 06/30/06	Gravitational Waves, Radiation Reaction, and Black Hole Systems	Co-PI
NSF	$1,705,000	06/15/06 — 05/31/10	Detection of Gravitational Waves: Optical Devices, Materials, and Analysis for LIGO	Co-PI
NSF	$160,000	08/01/06 — 07/31/09	Gravitational Waves, Radiation Reaction, and Black Hole Systems	Co-PI
NSF	$364,146	04/01/07 — 03/31/11	International REU Site for Gravitational Physics	PI
UF	$90,298	06/01/09 — 05/31/11	A Portable, Wearable, Fast, Magnetic Resonance Imager (MRI)	Co-PI
NSF	$2,550,000	06/15/09 — 05/31/13	Detection of Gravitational Waves: Instrument Science and Data Analysis for LIGO	Co-PI
NSF	$170,000	09/01/09 — 08/31/13	Gravitational Waves, Radiation Reaction, and Black Hole Systems	Co-PI
NSF	$815,739	04/15/10 — 03/31/15	International REU Site for Gravitational Physics	PI
NSF	$1,860,000	06/01/12 — 05/31/15	Detection of Gravitational Waves: Data Analysis, Detector Characterization, and Instrument Science for Advanced LIGO	Co-PI
NSF	$150,000	09/01/12 — 08/31/15	Black Holes, Gravitational Waves and Radiation Reaction	Co-PI
NSF	$41,256(part of $598,644)	09/01/12 — 08/31/14	Innovation Transfer of the Portable Nuclear Moment Imaging Platform	Co-PI sub-award
NSF	$76,698	09/01/13 — 08/31/16	Gravitational Waves and Radiation Reaction: An International Collaboration	Co-PI
NSF	$1,079,180	03/01/15 — 02/29/20	International REU Site for Gravitational Physics	PI
UCD	$17,372	04/01/16 — 03/31/18	GravityWaveWindow - Marie Curie for Anna Heffernan	PI
NSF	$10,502	04/12/16 — 02/29/20	Supplement: International REU Site for Gravitational Physics	PI
NSF	$99,629	07/01/16 — 06/30/19	Black Hole Perturbations and Gravitational Self Force Physics	PI
NSF	$21,438	04/12/17 — 02/29/20	Supplement: International REU Site for Gravitational Physics	PI

PUBLICATIONS AND REPORTS

1. Whiting, B. F., Bourne, I. A., Unthank, E. L. and Hopper, V. D. (joint authors), "Atmospheric Structure in Relation to Anomalous Propagation over Bass Strait", Annual

Technical Report, U. S. Office of Naval Research Contract No. 0014-73-C-0181. School of Physics (RAAF Academy), University of Melbourne, Dec. 1974.

2. Whiting, B. F., Bourne, I. A. and Unthank, E. L. (joint authors), "Anomalous Radar Propagation over Bass Strait", *Monitor*, Proc. IREE Aust., pp. 278–283, Sept. 1976.

3. Whiting, B. F., "Atmospheric Sensing and Radiowave Propagation", Ph.D. thesis, pp.1–387 University of Melbourne, February 1979 (several chapters have been recommended by the examiners for publication).

4. Gibbons, G. W. and Whiting, B. F., "Newtonian Gravity Measurements Impose Constraints on Unification Theories", Nature **291**, pp. 636–8, June 1981.

5. Fawcett, M. S. and Whiting, B. F., "Spontaneous Symmetry Breaking near a Black Hole", pp. 131–154 in The Quantum Structure of Space and Time, Proceedings of the Nuffield Workshop, Imperial College, London, 3-21 August 1981, eds. M. J. Duff and C. J. Isham, CUP (1982).

6. Whiting, B. F., "Transformations for the Radial Part of Non-Zero Spin Wave Equations", pp.1–12, preprint, DAMTP (May, 1982).

7. Whiting, B. F. "The Relation of Solutions of Different ODE's is a Commutation Relation", pp 561–570 in *Differential Equations*, Proceedings of the International Conference on Differential Equations, University of Alabama, Birmingham, U.S.A., 21-26 March 1983, eds. I. W. Knowles and R. T. Lewis, North Holland (1984).

8. Howard, K. W., Jensen, B. and Whiting, B. F., "Back-Reaction for a Thermal Scalar Field in Schwarzschild Anti-de Sitter Spacetime", pp. 1–12, preprint, Meudon (1985).

9. Sanchez, N. and Whiting, B. F., "Quantum Fields, Curvilinear Coordinates and Curved Spacetime", pp 318–324 in Proceedings of the Oxford Quantum Gravity Discussion Conference, 21-23 March 1984, eds. R. Penrose and C. J. Isham, CUP (1986).

10a. Sanchez, N. and Whiting, B. F., "Connection between Einstein Equations, Nonlinear Sigma Models, and Selfdual Yang-Mills Theory", Abstract Only, in *Twelfth Texas Symposium on Relativistic Astrophysics*, Proceedings of the Twelfth Texas Symposium on Relativistic Astrophysics, Jerusalem, 17-21 December 1984, eds Mario Livio and Giora Shaviv, Ann. N. Y. Acad. Sci., **470**, 389 (1986).

10. Sanchez, N. and Whiting, B. F., "Field Quantization for Accelerated Frames in Flat and Curved Spacetimes", Phys. Rev. D **34**, 1056–1071 (1986).

11. Sanchez, N. and Whiting B. F., "Quantum Field Theory and the Antipodal Identification of Black Holes", Nucl. Phys. B **283**, 605–623 (1987).

12. Braden, H. W., Whiting, B. F. and York Jr., J. W., "Density of States for the Gravitational Field in Black Hole Topologies", Phys. Rev. D **36**, 3614–3625 (1987).

13. Whiting, B. F. and York Jr., J. W., "Action Principle and Partition Function for the Gravitational Field in Black-Hole Topologies", Phys. Rev. Lett. **61**, 1336–9 (1988).

14. Whiting, B. F., "Mode Stability of the Kerr Black Hole", J. Math. Phys. **30**, 1301–5 (1989)

15. Marzban, C., Whiting, B. F., and Van Dam, H., "Hamiltonian Reduction for Massive Fields Coupled to Sources", J. Math. Phys. **30**, 1877–92 (1989).

16. Whiting B. F., "Role of Gravitation in Thermal Physics (and Thermofield Theory)", in Proceedings of the Workshop on Thermal Field Theories and Their Applications", held at CWRU, Cleveland, Ohio, October 3-5, 1988, eds. K. L. Kowalski, N. P. Landsman and Ch. G. van Weert, Physica A **158**, 437–47 (1989).

17. Whiting, B. F., "Non-Classical Geometries in Gravitational Thermodynamics", pp 647–654, in Proceedings of Fifth Marcel Grossman Meeting, held in Perth, Western Australia, August 8-13, 1988, eds. D. G. Blair and M. J. Buckingham, World Scientific, Singapore (1989).

18. Whiting, B. F., "Black-Hole Stability Problem", pp 1207–1216 in Proceedings of Fifth Marcel Grossman Meeting, held in Perth, Western Australia, August 8-13, 1988, eds. D. G. Blair and M. J. Buckingham, World Scientific, Singapore (1989).

19. Brown, J. D., Burgess, C. P., Kshirsagar, A., Whiting, B. F., and York, J. W., "Scalar Field Wormholes", Nucl. Phys. B **328**, 213–222 (1989).

20. Whiting, B. F., "Black Holes and Gravitational Thermodynamics", Class. Quantum Grav. **7**, 15–18 (1990).

21. Brown, J. D., Comer, G. L., Martinez, E. A., Melmed, J., Whiting, B. F. and York Jr., J. W., "Thermodynamic Ensembles and Gravitation", Class. Quantum Grav. **7**, 1433–44 (1990).

22. Braden, H. W., Brown, J. D., Whiting, B. F., and York Jr., J. W., "Charged Black Holes in the Grand Canonical Ensemble", Phys. Rev. D **42**, 3376–85 (1990).

23. Louko, J. and Whiting, B. F., "Energy Spectrum of a Quantum Black Hole", Class. Quantum Grav. **9**, 475–92 (1992)

24. Klauder, J. R. and Whiting, B. F. "Extended Coherent States and Path Integrals with Auxiliary Variables", J. Phys. A **26**, 1697–1715 (1993)

25. Melmed, J. and Whiting, B. F., "Controlling Unboundedness in the Gravitational Path Integral", Phys. Rev. D **49**, 907–16 (1994)

26. Whiting, B. F., "New Results in Black Hole Physics", in Proceedings of the Journées Relativistes '93, a special issue of Int. J. Mod Phys. D **3**, 317–21 (1994)

27. Stephens, C. R., 't Hooft, G. and Whiting, B. F., "Black Hole Evaporation without Information Loss", Class. Quantum Grav. **11**, 621–47 (1994)

28. Louko, J. and Whiting, B. F., "Hamiltonian Thermodynamics of the Schwarzschild Black Hole", Phys. Rev. D **51**, 5583–99 (1995).

29. Whiting, B. F., "Singularity Avoidance During Gravitational Collapse", in Proceedings of the Journées Relativistes '96, Ascona, Switzerland, 26-30 May 1996, eds. N Straumann, Ph. Jetzer and G. Lavrelashvili, Helv. Phys. Acta, **69**, 281–284 (1996). Also:

30. Whiting, B. F., "Singularity Avoidance During Gravitational Collapse", pp 331–334 in Proceedings of Second International A. D. Sakharov Conference on Physics, Moscow, May 20-24, 1996, eds. I. M. Dremin and A. M. Semikhatov, World Scientific, Singapore (1997).

31. Louko, J., Whiting, B. F. and Friedman, J. L., "Hamiltonian Spacetime Dynamics with a Spherical Null-dust Shell", Phys. Rev. D **57**, 2279–98 (1998)

32. Whiting, B. F., "Stability of Black Holes: Including Reflections on the Perturbations of Black Hole Spacetimes", pp 17–31 in *"Black Holes, Gravitational Radiation and the Universe"*, Essays in honour of C. V. Vishveshwara, eds. Bala Iyer and Biplab Bhawal, Kluwer Academic Publishers, Dordrecht (1999).

33. Whiting, B. F., Coldwell, B. L., Scott, S. M., Evans, B. J. & McClelland, D. E., "Noise Characterization for Laser Interferometer Gravitational Wave Detectors", in Proceedings of the Second Australasian Conference on General Relativity and Gravitation, Sydney, 6-11 July 1998, eds D. Blair and P. Szekeres, GRG **32**, 411–23 (2000).

34. McClelland, D. E., Gray, M. B., Shaddock, D. A., Slagmolen, B. J., Scott, S. M., Charlton, P., Whiting, B. F., Sandeman, R. J., Blair, D. G., Ju, L., Winterflood, J., Greenwood, D., Benabid, F., Baker, M., Zhou, Z., Mudge, D., Ottaway, D., Ostermeyer, M., Veitch, P. J., Munch, J., Hamilton, M. W. and Hollit, C., "Status of the Australian Consortium for Interferometric Gravitational Astronomy", 140–9 in *GRAVITATIONAL WAVES: Third Edoardo Amaldi Conference,* Proceedings of the Third Edoardo Amaldi Conference, ed. Sydney Meshkov, AIP Conference Proceedings **523**, Melville, NY (June 2000). Invited Paper at the Third Edoardo Amaldi Conference on Gravitational Waves, held in Pasadena July 12-16, 1999.

35. Scott, S. M., Charlton, P., Whiting, B. F., McClelland, D. E. and Sandeman, J., "Caltech 40m Interferometer Characterization: Spectral Properties of the Data", 241–50 in *Gravitational Wave Detection II,* Proceedings of the Second Tama Workshop on Gravitational Wave Detection, eds S. Kawamura and N. Mio, Frontiers Science Series **32**, Universal Academy Press (May 2000). Invited paper at the 2nd TAMA Workshop on Gravitational Wave Detection held in Tokyo on October 19-22, 1999.

36. Scott, S. M., McClelland, D. E., Searle, A. C., Charlton, P., Whiting, B. F., "A Gaussianity measure for laser interferometer data", 1919–20 in *Proceedings of the Ninth Marcel Grossman Meeting on General Relativity: On Recent Developments in Theoretical and Experimental General Relativity, Gravitation and Relativistic Field Theories*, eds V. G. Gurzadyan, R. T. Jantzen and R. Ruffini, World Scientific (2002).

37. Lousto, C. O. and Whiting, B. F., "Reconstruction of Black Hole Metric Perturbations from the Weyl Curvature.", Phys. Rev. D **66**, 024026-1–7 (July 2002).

38. Detweiler, S. and Whiting, B.F., "Self-Force via a Green's Function Decomposition", Phys. Rev. D **67**, 024025-1–5 (Jan. 2003).

39. "LIGO data analysis", P. S. Shawhan, for the LIGO Scientific Collaboration, Nucl. Instrum. Meth. Phys. Res. A **502**, 396–401 (Feb. 2003).

40. Detweiler, S. Messaritaki, E. and Whiting, B.F., "Self-Force of a Scalar Field for Circular Orbits about a Schwarzschild Black Hole", Phys. Rev. D **67**, 104016-1–18 (May 2003).

41. "Gravitational wave detectors: A report from LIGO-land", Gabriela González (for the LIGO Scientific Collaboration), 26–33 in *Kalithea 2002, Recent developments in Gravity*, Proceedings of the 10th Hellenic Relativity Conference, held in Kalithea, Greece 30 May - 2 June (2002), eds kostas D Kokkotas & Nikolaos Stergioulas, World Scientific (Aug. 2003).

42. "Calibration of the LIGO detectors for the first LIGO science run", R Adhikari, G González, M Landry and B O'Reilly (for the LIGO Scientific Collaboration), Class. Quantum Grav. **20** S903–S914 (Aug. 2003).

43. Whiting, B.F. and Detweiler, S., "Radiation Reaction and the Principle of Equivalence", Int. J. Mod. Phys. D **9**, 1709–13 (October 2003).

44. "Detector Description and Performance for the First Coincidence Observations between LIGO and GEO", LIGO Scientific Collaboration, Nucl. Instrum. Meth. Phys. Res. A **517**, 154–79 (Dec. 2003).

45. "Upper limits on the strength of periodic gravitational waves from PSR J1939 + 2134", B. Allen, G. Woan, for the LIGO Scientific Collaboration, Class. Quantum Grav. **21**, S671–S676 (Feb. 2004).

46. "First upper limits from LIGO on gravitational wave bursts", Alan J Weinstein, for the LIGO Scientific Collaboration, Class. Quantum Grav. **21**, S677–S684 (Feb. 2004).

47. "First upper limit analysis and results from LIGO science data: stochastic background", John T Whelan (for the LIGO Scientific Collaboration), Class. Quantum Grav. **21**, S685–S690 (Feb. 2004).

48. "Search for inspiralling neutron stars in LIGO S1 data", Gabriela González (for the LIGO Scientific Collaboration), Class. Quantum Grav. **21**, S691–S696 (Feb. 2004).

49. "Testing the LIGO inspiral analysis with hardware injections", Duncan A Brown (for the LIGO Scientific Collaboration), Class. Quantum Grav. **21**, S797–S800 (Feb. 2004).

50. Wise, S. Meuller, G., Reitze, D, Tanner, D. and Whiting, B.F., "Linewidth-Broadened Fabry-Perot Cavities within Future Gravitational Wave Detectors", Class. Quantum Grav. **21**, S1031–S1036 (Feb. 2004).

51. "Setting upper limits on the strength of periodic gravitational waves from PSR J1939 + 2134 using the first science data from the GEO600 and LIGO detectors", LIGO Scientific Collaboration LIGO-I authors, Phys. Rev. D **69**, 082004-1–16 (April 2004).

52. "First upper limits from LIGO on gravitational wave bursts", LIGO-I authors, LIGO Scientific Collaboration LIGO-I authors, Phys. Rev. D **69**, 102001-1–21 (May 2004).

53. "Analysis of LIGO data for gravitational waves from binary neutron stars", LIGO Scientific Collaboration, Phys. Rev. D **69**, 122001-1–16 (June, 2004).

54. "Analysis of First LIGO Science Data for Stochastic Gravitational Waves", LIGO Scientific Collaboration LIGO-I authors, Phys. Rev. D **69** 122004-1–24 (June 2004).

55. "Optimal combination of signals from colocated gravitational wave interferometers for use in searches for a stochastic background", A. Lazzarini, S. Bose, P. Fritschel, M. McHugh, T. Regimbau, K. Reilly, J. D. Romano, J. T. Whelan, S. Whitcomb and B. F. Whiting, Phys. Rev. D **70** 062001-1–12 (Sept. 2004).

56. "Gravitational wave detectors: New eyes for Physics and Astronomy", Gabriela González, for the LIGO Scientific Collaboration, Pramana – J. Phys. **63** 663–72 (Oct. 2004).

57. "Status of LIGO data analysis", Gabriela González (for the LIGO Scientific Collaboration), Class. Quantum Grav. **21** S1575–S1583 (Oct. 2004).

58. "Vetoes for inspiral triggers in LIGO data", Nelson Christensen, Peter Shawhan and Gabriela González (for the LIGO Scientific Collaboration), Class. Quantum Grav. **21** S1747–S1755 (Oct. 2004).

59. "Scalar field self-force effects on orbits about a Schwarzschild black hole", Luz Maria Diaz-Rivera, Eirini Messaritaki, Bernard F. Whiting and Steven Detweiler, Phys. Rev. D **70** 124018-1–14 (Dec. 2004).

60. Whiting, B. F., review of *A Relativist's Toolkit, The Mathematics of Black-Hole Mechanics* by Eric Poisson, in Class. Quantum Grav. **21** 5675 (Dec. 2004).

61. "Limits on gravitational wave emission from selected pulsars using LIGO data", The LIGO Scientific Collaboration, M. Kramer and A. G. Lyne, Phys. Rev. Lett. **94** 181103-1–6 (May 2005).

62. "Phase effects in the diffraction of light: beyond the grating equation", Stacy Wise, V. Quetsche, A. J. Desphande, G. Mueller, D. H. Reitze, D. B. Tanner, B. F. Whiting, Y. Chen, A. Tünnermann, E. Kley, and T. Klausnitzer, Phys. Rev. Lett. **95** 013901-1–4 (June 2005).

63. "Identifying the singular field for self-force evaluation", Bernard F. Whiting, Class. Quantum Grav. **22** S661–S679 (Aug. 2005).

64. "Metric reconstruction from Weyl scalars", Bernard F. Whiting and Larry Price, Class. Quantum Grav. **22** S589–S604 (Aug. 2005).

65. "Search for Gravitational Waves Associated with the Gamma Ray Burst GRB030329 Using the LIGO Detectors", The LIGO Scientific Collaboration, Phys. Rev. D **72** 042002-1–17 (Aug. 2005).

66. "Preparing GEO 600 for gravitational wave astronomy — a status report", M Hewitson (for the LIGO Scientific Collaboration), Class. Quantum Grav. **22** S891–S900 (Sept. 2005).

67. "Improvements in Strain Calibration for the Third LIGO Science Run", Michael Landry for the LIGO Scientific Collaboration, Class. Quantum Grav. **22** S985–S994 (Sept. 2005).

68. "Gravitational Wave Burst Vetoes in the LIGO S2 and S3 Data Analyses", Alessandra Di Credico (for the LIGO Scientific Collaboration), Class. Quantum Grav. **22** S1051–S1058 (Sept. 2005).

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MANUSCRIPTS IN PREPARATION:

1. "Gravitational Self-Force Regularization in the Regge-Wheeler and Easy Gauges", Jonathan E. Thompson, Barry Wardell, and Bernard F. Whiting, 30 pp, (Oct 8, 2018).
2. "Compatibility Complex For Black Hole Spacetimes", Steffen Aksteiner, Lars Andersson, Thomas Bačkdahl, Igor Khavkine, and Bernard Whiting, 12 pp, (Oct 24, 2018).

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2. Coldwell, R. L. and Whiting, B. F., "Violin Mode Noise", pp 1-18, LIGO-G000106-00-D (March 2000). Available at: `http://admdbsrv.ligo.caltech.edu/dcc/`
3. Coldwell, R. L., Klimenko, S., Whiting, B. F., Charlton, P. and Scott, S. M., "Line Removal Techniques", pp 1-15, LIGO-G000107-00-D (April 2000). Originally available at: `http://admdbsrv.ligo.caltech.edu/dcc/`
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18. Guido Mueller; Volker Quetschke; David Reitze; David Tanner; Bernard Whiting; S Wise, "Coupling of frequency dependent length changes to the light phase in a double grating setup", pp 1-12, LIGO-G040089-00-Z (March 2004). Available at: `http://admdbsrv.ligo.caltech.edu/dcc/`

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20. S Wise; Volker Quetschke; David Tanner; Bernard Whiting, "Near-field Radiative Coupling for Low Temperature Detector", pp 1-16, LIGO-G050055-00-Z (Jan. 2005). Available at: `http://admdbsrv.ligo.caltech.edu/dcc/`

21. Bernard Whiting; Manuela Campanelli, "The Dawn of a Golden Age - Report on Recent Results in Numerical Relativity", pp 1-9, LIGO-G060146-00-Z (March 2006). Available at: `http://admdbsrv.ligo.caltech.edu/dcc/`

22. Bernard Whiting; S. Chatterji; Vuk Mandic; Robert Schofield, "Inter-Site Magnetic Correlations", pp 1-9, LIGO-G060147-00-Z (March 2006). Available at: `http://admdbsrv.ligo.caltech.edu/dcc/`

23. Bernard Whiting, for the LIGO Scientific Collaboration, "LIGO data and the stochastic gravitational wave background", pp 1-13, LIGO-G070239-00-Z (April 2007). Available at: `http://admdbsrv.ligo.caltech.edu/dcc/`

24. Bernard Whiting (for the LIGO scientific Collaboration and the Virgo Collaboration "Searches for stochastic gravitational waves with LIGO and Virgo data", A0 poster, LIGO-G070424-03-Z (July 2007). Available at: `http://admdbsrv.ligo.caltech.edu/dcc/`

CONFERENCES ATTENDED

Second Marcel Grossman Conference on Recent Developments in General Relativity, Trieste, 5-11 July, 1979.

First Cambridge Nuffield Foundation Quantum Gravity Workshop, Cambridge, 23 July-17 August, 1979.

Second Oxford Quantum Gravity Conference, Oxford, 15-19 April, 1980.

Nuffield Foundation Supergravity Workshop, Cambridge, 23 June-11 July, 1980.

Ninth International Conference on General Relativity and Gravitation - GR9, Jena (GDR), 14-19 July, 1980.

Gauge Theory Discussion Meeting, Cosner House, Abingdon (Rutherford Laboratories), 19-20 February, 1981.

Royal Society, Gauge Theories of the Fundamental Interactions, London, 29-30 April, 1981.

Heisenberg Symposium, Munich, 16-21 July, 1981.

Nuffield Quantum Gravity Workshop, London, 3-21 August, 1981.

Study week on "Cosmology and Fundamental Physics", Pontifical Academy of Science, Vatican City, Rome, 28 September-3 October, 1981.

Theory meeting at Rutherford and Appleton Laboratories, Didcot, 16-18 December, 1981.

The Big Bang and Element Creation, Royal Society, London, 11-12 March, 1982.

Second Workshop on Stochastic Differential Equations, Cambridge, 22-26 March, 1982.

Conference on Ordinary and Partial Differential Equations, Dundee, 29 March-2 April, 1982.

Workshop on Functional Integrals, Santa Barbara, 9-20 August, 1982.

Royal Astronomical Society Discussion Meeting on the Constant of Gravitation, London, 10 December 1982.

Eleventh Texas Symposium on Relativistic Astrophysics, Austin, Texas, 12-17 December, 1982.

UAB International Conference on Differential Equations, Birmingham, Alabama, 21-26 March, 1983.

Tenth International Conference on General Relativity and Gravitation, Padua, 4-9 July, 1983.

Oxford Quantum Gravity Discussion Conference, Oxford, 21-24 March, 1984.

Fourth Marcel Grossman Meeting, Rome, 17-21 June, 1985.

International Conference on Differential Equations and Mathematical Physics, Birmingham, Alabama, 3-8 March, 1986.

Quantum Gravity Conference, Santa Barbara, 16-20 June, 1986.

Eighth Congress of the International Association of Mathematical Physics, Marseille, 16-25 July, 1986.

Colloquium Meeting on String Theory, Quantum Cosmology and Quantum Gravity: Integrable and Conformal Invariant Theories, Meudon, 22-26 September, 1986.

Thirteenth Texas Symposium on Relativistic Astrophysics, Chicago, 15-19 December, 1986.

Three Hundred Years of Gravitation, Cambridge, 29 June - 4 July, 1987.

Ninth Congress of the International Association of Mathematical Physics, Swansea, 17-27 July, 1988.

Fifth Marcel Grossman Meeting, Perth, 8-13 August, 1988.

Workshop on Thermal Field Theories and their Applications, Cleveland, 3-5 October, 1988.

Symposium on Quantum Cosmology, Medford, 19-20 May, 1989.

Twelfth International Conference on General Relativity and Gravitation, Boulder, 2-8 July, 1989.

International Conference on Differential Equations and Mathematical Physics, Birmingham, Alabama, 15-21 March, 1990.

Discussion Conference on Recent Advances in General Relativity (in Honour of E. T. Newman), Pittsburg, 3-5 May, 1990.

Second Workshop on Thermal Field Theories and their Applications, Tokyo, 23-27 July, 1990.

Sixth Florida Workshop in Nonlinear Astronomy: Nonlinear Problems in Relativity and Cosmology, Gainesville, 11-13 October, 1990.

42nd International Science Fair, Orlando, 8 May, 1991 (Judge).

Tenth Congress of the International Association of Mathematical Physics, Leipzig, 29 July - 9 August, 1991.

Journées Relativistes, Brussels, 5-7 April, 1993.

Sixth Gregynog Relativity Workshop: Perturbation Theory of Black Holes and Neutron Stars, Gregynog, 23-26 August, 1993.

BrisPHYS '94, 6th APPC/11th AIP Congress, Brisbane, 4-8 July, 1994.

Seventh Marcel Grossman Meeting, Stanford, 24-30 July, 1994.

17th Texas Symposium on Relativistic Astrophysics, Munich, 12-17 December, 1994.

14th International Conference on General Relativity and Gravitation, Florence, 6-12 August, 1995.

NATO Advanced Study Institute on String Gravity and Physics at the Planck Scale, Erice, (Sicily), 8-19 September, 1995.

Second International Sakharov Conference on Physics, Moscow, May 20-24, 1996.

Journées Relativistes 96, Ascona, Switzerland, May 26-30, 1996.

Summer Workshop on Radiation Thermodynamics, Telluride, Colorado, July 21-28, 1996.

Gravitational Wave Data Analysis Workshop, MIT, Boston, December 6-8, 1996.

Symposium on Black Holes and Relativistic Stars in Honor of S. Chandrasekhar, University of Chicago, Chicago, December 14-15, 1996.

18th Texas Symposium on Relativistic Astrophysics, Chicago, December 15-20, 1996.

LIGO Scientific Collaboration Inauguration, LSU, Baton Rouge, August 14-16, 1997.

Second gravitational Wave Data Analysis Workshop, Orsay, France, November 13-15, 1997.

15th International Conference on General Relativity and Gravitation, Pune, India, December 16-21, 1997.

Spinoza Meeting on the Quantum Black Hole, Utrecht, Holland, June 29 - July 4, 1998.

Second Australian Conference on General Relativity and Gravitation, Sydney, Australia, July 6-11, 1998.

XXII International Colloquium on Group Theoretical Methods in Physics, Hobart, Tasmania, July 13-18, 1998.

19th Texas Symposium on Relativistic Astrophysics, Paris, December 13-18, 1998.

Third Edoardo Amaldi Conference on Gravitational Waves, Caltech, July 12-16, 1999.

LIGO Scientific Collaboration Meeting, Stanford, July 19-21, 1999.

GWDAW-99, 4th Gravitational Wave Data Analysis Workshop, Rome, December 2-4, 1999.

LIGO Scientific Collaboration Meeting, LIGO Livingston Observatory, March 16-18, 2000.

Ninth Marcel Grossman Meeting, Rome, July 2-8, 2000.

XIII International Congress on Mathematical Physics, London, July 17-22, 2000.

LIGO Scientific Collaboration Meeting, LIGO Hanford Observatory, August 15-17, 2000.

GWDAW-2000, Gravitational Wave Data Analysis Workshop, Baton Rouge, December 14-16, 2000.

LIGO Scientific Collaboration Meeting, Baton Rouge, March 14-17, 2001.

Fourth Capra Meeting on Gravitational Radiation Reaction, Golm, Germany, May 28-31, 2001.

Fourth Edoardo Amaldi Conference on Gravitational Waves, Perth, July 8-13, 2001.

Third Australasian Conference on General Relativity and Gravitation, Perth, July 11-13, 2001.

16th International Conference on General Relativity and Gravitation, Durban, South Africa, July 15-21, 2001.

LIGO Scientific Collaboration Meeting, LIGO Hanford Observatory, August 13-16, 2001.

The Future of Theoretical Physics and Cosmology, Stephen Hawking's 60^{th} Birthday Conference, CMS, Cambridge, January 6-13, 2002.

LIGO Scientific Collaboration Meeting, Baton Rouge, March 20-23, 2002.

Focus Session on Radiation Reaction in General Relativity, Penn. State, May 24-30, 2002.

Fifth Capra Meeting on Radiation Reaction in General Relativity, Penn. State, May 31-June 2, 2002.

Third International Sakharov Conference in Physics, Moscow, June 24-29, 2002.

LIGO Scientific Collaboration Meeting, LIGO Hanford Observatory, August 19-22, 2002.

LIGO Scientific Collaboration Meeting, LIGO Livingston Observatory, March 17-20, 2003.

Capra 6: Meeting and Workshop on Radiation Reaction, YITP (Kyoto), June 23 - July 2, 2003.

Fifth Edoardo Amaldi Conference on Gravitational Waves, Pisa, July 6-11, 2003.

Workshop on the Interaction of Gravity with External Fields, Montréal (Québec), Canada, October 1 - 5, 2003.

LIGO Scientific Collaboration Meeting, LIGO Livingston Observatory, March 15 - 18, 2004.

Capra 7 Meeting and Workshop on Radiation Reaction, Brownsville, Tx, May 29 - June 5, 2004.

LIGO Scientific Collaboration Observational Results Meeting, Tufts, Boston, June 5 - 6, 2004.

5th International LISA Symposium, ESTEC, Noordwijk, The Netherlands, July 12 - 15, 2004.

17th International Conference on General Relativity and Gravitation, Dublin, Ireland, July 18 - 24 2004.

LIGO Scientific Collaboration Meeting, LIGO Hanford Observatory, August 16-19, 2004.

Capra 8 Meeting on Radiation Reaction, Abingdon, UK, July 11 - 14, 2005.

Gravity and Cosmology, post - YKIS 2005 visitor program, Yukawa Institute for Theoretical Physics (YITP), Kyoto (Japan), July 25 - August 3, 2005.

Frontiers of Gravitational Wave Physics, post - YKIS 2005 mini-workshop, Yukawa Institute for Theoretical Physics (YITP), Kyoto (Japan), July 27 - 28, 2005.

GWDAW 10, Brownsville (Tx), December 14-17, 2005.

Second Gulf Coast Gravity Meeting, FAU, Boca Raton (Fl), March 17-18, 2006.

LIGO Scientific Collaboration Meeting, LIGO Hanford Laboratory, March 19-22, 2006.

Astrophysical Applications of Numerical Relativity Workshop, Guanajuato, Mexico, May 6-11, 2006.

Capra 9 Meeting on Radiation Reaction, Milwaukee, WI, June 9 - 11; and workshop June 12 - 14, 2006.

LIGO Scientific Collaboration Meeting, MIT, Boston, November 4-5, 2006.

Post-LSC Numerical Relativity and Data Analysis Meeting, MIT, Boston, November 6-7, 2006 (on organizing committee).

Numerical Relativity meets 3PN, Washington University, St Louis, Mo, February 8-11, 2007.

APS April Meeting, Jacksonville, FL, April 14-17, 2007.

Capra 10 Meeting on Radiation Reaction, Huntsville, Al, June 25-27, 2007.

18th International Conference on General Relativity and Gravitation, Sydney, Australia, July 8 - 13, 2007.

Seventh Edoardo Amaldi Conference on Gravitational Waves, Sydney, Australia, July 8-14, 2007.

LSC-Virgo Data Analysis Meeting, Boston, December 11-12, 2007.

GWDAW 12, Boston, December 13-16, 2007.

Post Newton 2008 International Workshop, Jena, June 11-14, 2008.

7th International LISA Symposium, Barcelona, June 16-20, 2008.

Summer School on Mass and Motion in General Relativity, Orléans, June 23-25, 2008.

11th Capra Meeting and Workshop, Orléans, June 26-29, 2008.

LSC/Virgo joint collaboration meeting, Amsterdam, September 21-25, 2008.

APS March Meeting, Pittsburgh, March 18, 2009.

12th Capra Meeting on Radiation Reaction, Bloomington (Indiana), 1519 June, 2009.

MG12 Meeting, Paris, 12th-18th July, 2009.

LSC-Virgo Data Analysis Meeting, Boston, December 14-17, 2009.

Miami 2009, Ft Lauderdale (FL), December 15-20, 2009.

Hawking & Associates, c/- The Mitchell Institute, Texas A&M, April 8-13, 2010.

LSC-Virgo Collaboration Meeting, Hannover, Germany, June 8-10, 2010.

NRDA-Capra Meeting: Theory Meets Data Analysis at Comparable and Extreme Mass Ratios, Perimeter Institute, Waterloo, Canada, June 20-26, 2010.

19th International Conference on General Relativity and Gravitation, Mexico City, Mexico, July 5-9, 2010.

2010 International School on Numerical Relativity and Gravitational Waves, Asia Pacific Center for Theoretical Physics (APCTP), Pohang, Korea, July 26-30, 2010.

Chandrasekhar Centennial Symposium, The University of Chicago, Chicago (IL), October 15-17, 2010.

Hawking & Associates, c/- The Mitchell Institute, Texas A&M, March 26-April 2, 2011.

LSC-Virgo Collaboration Meeting, Orsay, France, June 6-9, 2011.

14th Capra Meeting on Radiation Reaction in General Relativity, University of Southampton, Southampton, England, July 4-8, 2011.

Ninth Edoardo Amaldi Conference on Gravitational Waves and NRDA Meeting, Cardiff, Wales, July 10-15, 2011.

LSC-Virgo Collaboration Meeting, Gainesville, FL, September 26-29, 2011.

The State of the Universe, Celebrating Stephen Hawking's 70th Birthday, Centre for Theoretical Cosmology, DAMTP, University of Cambridge, Cambridge, , January 5-8, 2012.

LSC-Virgo Collaboration Meeting, Cambridge, MA, March 19-23, 2012.

9th LISA Symposium, BnF-Paris, France, May 21-25, 2012.

15th Capra Meeting on Radiation Reaction in General Relativity, Maryland, College Park, MD, June 11-15, 2012.

LSC-Virgo Collaboration Meeting, La Sapienza, Rome, September 10-14, 2012.

First eLISA Consortium Meeting, APC, Paris, October 22-23, 2012.

Nishinomiya Yukawa Symposium: New Waves in Gravity and Cosmology, YITP, Kyoto, December 4-6, 2012.

Nonlinear Wave Equations at IHP, ANR Project, IHP, Paris, May 21-24, 2013.

First Meeting of the ANR "Analyse Asymptotique en Relativité Générale", Université de Cergy-Pontoise, France, June 13-14, 2013.

Kerr Conference, celebrating the 50th anniversary of the Kerr metric, Albert Einstein Institute, Potsdam, Germany, July 4-5, 2013.

GR20 and Amaldi 10, University of Warsaw, Warsaw, Poland, July 7-13, 2013.

16th Capra Meeting on Radiation Reaction in General Relativity, SMS, UCD, Dublin, Ireland, July15-19, 2013.

LSC-Virgo Collaboration Meeting, Hannover, Germany, September 23-27, 2013.

The problem of motion in relativistic gravity: A mini symposium at the University of Florida, Gainesville, April 17, 2014.

Frontiers of Fundamental Physics XIV, Marseille, France, July 15-18, 2014.

8th Gulf Coast Gravity Meeting, UF Gainesville, FL, February 27-28, 2015 – Organizer.

LSC-Virgo Collaboration Meeting, Pasadena, CA, March 16-19, 2015.

11th Edoardo Amaldi Conference on Gravitational Waves, Gwangju, South Korea, June 21-26, 2015.

Molecule-type workshop on "Radiation Reaction in General Relativity", Yukawa Institute for Theoretical Physics, Kyoto University, Kyoto, Japan, June 22 - July 10, 2015; including:

18th Capra Meeting on Radiation Reaction in General Relativity, YITP, Kyoto, Japan, June 29 - July 2, 2015.

Hawking Radiation, singularities, and the related information loss, KTH, Stockholm, Sweden, 24-29th August, 2015.

LSC-Virgo Meeting, Budapest, Hungary, August 31-September 3, 2015.

A Century Of General Relativity, Harnack House, Berlin, Germany, November 30 - December 2, 2015.

APS April Meeting, Salt lake City, UT, April 16-19, 2016.

The first observation of a binary black hole merger: Status and future prospects, Hannover, Germany, May 23-26, 2016.

19th Capra Meeting on Radiation Reaction in General Relativity, Observatorie de Paris à Meudon, June 27 - July 1, 2016.

GR21, Columbia University, New York, July 10-15, 2016.

E-GRAAL (Earthquake GRAvity Alerts), 2nd meeting, IPGP, Paris, France, October 6, 2016.

2016 Physics REU Site Director Workshop, Houston, TX, October 20-21, 2016.

Probing the early Universe with Gravity, APC, Paris, France, November 23-25, 2016.

Physics and Astrophysics at the eXtreme (PAX), Penn. State University, State College, PA, December 1-3, 2016.

Recent Developments in General Relativity, a Meeting in honor of Joseph Katz, Beit Belgia, Hebrew University Edmond J. Safra Campus, Jerusalem, May 21-23, 2017.

20th Capra Meeting on Radiation Reaction in General Relativity, University of North Carolina, Chapel Hill, June 19-23, 2017.

The era of gravitational-wave astronomy, XXXIII Institut d'Astrophysique de Paris Colloquium, IAP, Paris, FRANCE, June 26-30, 2017.

Gravity and Black Holes, Stephen Hawking 75th Birthday Conference, Centre for Theoretical Cosmology, Cambridge, UK, July 2-5, 2017.

Physics and Astrophysics at the eXtreme (PAX), NIKHEF, Amsterdam, Netherlands, August 14-17, 2017.

Journée de la division "Champs et particules" de la SFP: La Gravitation, APC, Paris, FRANCE, November 22, 2017.

Séance ouverte de Culture Scientifique: Actualités Cosmiques, Cité Internationale Universitaire de Paris, Maison de l'Argentine, Paris, FRANCE, November 23, 2017.

GEMMA Workshop, Università del Salento Lecce, Italy, June 4-7, 2018; co-organizer.

IV Physics and Astrophysics at the Extreme (PAX-IV) Meeting, IUCCA, Pune, India, August 7-10, 2018; Discussion Panel organizer (1) and participant (2).

IV José Plínio Baptista School on Cosmology: Gravitational Waves, Pedra Azul - Domingos Martins, ES, Brazil, October 15-19, 2018

SEMINARS GIVEN

"Scattering Cross-sections for High Energy Particles in the Schwarzschild Spacetime" - February (1980) DAMTP, Cambridge.

"Deviations from Newton's law?" - November (1980), DAMTP, Cambridge.

"Interacting Fields near a Black Hole" - June (1982), Observatoire de Paris, Meudon.

"Symmetry Restoration near a Black Hole" - August (1982), Enrico Fermi Institute, Chicago.

"Theoretical Background to the Constant of Gravitation" - December (1982), RAS, London.

"Perturbations of Black Holes: Separability and Relations between Solutions" - January (1983) DAMTP, Cambridge, February (1983), Theoretical Physics Department (Bern).

"Commutation Relations for the Solutions of Ordinary Differential Equations" - March (1983), Birmingham (Al).

"Teukolsky-Starobinsky transformations: their origin and implications" - May (1983), Enrico Fermi Institute, Chicago.

"Conformal and Gravitational Perturbations of the Kerr Black Hole: a Twistor Connection?" - July (1983), Observatoire de Paris, Meudon.

"Some Recent Contributions to the Study of Black Hole Perturbations" - November (1983), Institut Henri Poincare, Paris.

"Quantum Field Theory for a General Class of Accelerated Observers" - March (1984), Oxford.

"Summary of Oxford quantum gravity discussion conference" - April (1984), Meudon.

"An Analytic Proof of the Mode Stability of the Kerr Black Hole" - November (1984), Meudon; January (1985), Santa Barbara, Pasadena, Chicago, Champagne-Urbana and Austin; February (1985), Syracuse, Melbourne; March (1985), Canberra, Sydney, Adelaide; April (1985), Monash; June (1985), Rome; March (1986), Chapel Hill; October (1986), Waterloo; December (1986), Chicago; March (1988), Milwaukee.

"Quantum Fields in Curved Spacetimes" - March (1985), Melbourne.

"Extension of Classical Differential and Integral Transformations in a Proof of Black Hole Stability" - March (1986), Birmingham (Alabama).

"A Discussion of the Hamiltonian Form of Classical and Quantum Gravity" - June (1986), Santa Barbara; July (1986), Marseille.

"Quantum Field Theory and the Antipodal Identification of Black Holes" - July (1986), Marseille, September (1986) Meudon.

"Thermodynamics of Gravitational Fields" - March (1988), Milwaukee, Chicago; July (1988), Swansea; August (1988), Perth, Melbourne.

"The Black Hole Stability Problem" - August (1988), Perth - invited review lecture.

"General Relativity as a Constrained Dynamical System" - September (1988), Chapel Hill.

"The Role of Gravity in Thermo-field Dynamics" - October (1988), Cleveland (Ohio).

"A One-dimensional Path Integral in General Relativity" - October (1988), Chapel Hill (Math-Physics).

"Gravitational Thermodynamics" - February (1989), Columbia (Missouri).

"Black Holes and Thermodynamics" - February (1989), Washington University, St. Louis (Missouri).

"Stability Investigations for Black Hole Spacetimes" - February (1989), Chapel Hill.

"Thermodynamics After Gravitational Collapse: How Black Holes Contribute to Thermal Physics" - February (1989), Chapel Hill.

"Black Holes and Gravitational Thermodynamics" - April (1989), Liege (Belgium), Bern; May (1989), Gainesville (Florida).

"Scalar Field Wormholes" - May (1989), Medford (Massachusetts).

"Thermodynamics and Gravitation" - October (1989), Gainesville.

"Boundary Value Problems in General Relativity" - March (1990), Birmingham (Al).

"Black Hole Thermodynamics and Quantum Field Theory" - Spring (1990), Gaines-ville, Lectures in Mathematical Physics.

"Physics (Classical and Quantum) and Black Holes" - July (1990), Canberra.

"General Relativity and Thermal Field Physics" - July (1990), Tokyo.

"Black Holes in Classical and Quantum Physics" - July (1990), Kyoto; October (1990), Gainesville.

"Gravity and Quantum Physics" - August (1990), Melbourne, Adelaide.

"A Perspective on Quantum Fields in Curved Spacetime" - Spring (1991), Gainesville, Lectures in Mathematical Physics.

"Perturbations and normal modes of spherical black holes" - April (1991), Gainesville.

"Perturbative Stability of Rotating Black Holes" - April (1991), Gainesville.

"General Relativity and Thermodynamics" - June (1991), Jerusalem (Israel).

"A Variational Principle for Gravitational Thermodynamics" - June (1991), Haifa.

"Boundary Value Problems in General Relativity: Report of Work on the Thermodynamics of Rotating Black Holes" - August (1991), Leipzig.

"Topology as Entropy in Gravitational Physics" - April (1992), Gainesville.

"Black Holes in Classical and Quantum Physics" - December (1992), Utrecht; February (1993), Meudon, Groningen.

"New Results in Black Hole Physics" - April (1993), Brussels.

"Almost Two Decades of Black Hole Evaporation: Where are We Now?" - May (1993), Vienna; June(1993), Cambridge, Hamburg.

"Field Theory, Geometry and Topology in the Formulation of Black Hole Thermodynamics" - May (1993), Vienna (Mathematical Physics).

"Can One Hear the Shape of a Drum-Stick?" - August (1993), Gregynog (Wales).

"Black Hole Evaporation and Quantum Information" - December (1993), Gainesville.

"From Hydrogen Atoms to Black Holes; from Black Holes to ... no Singularities" - June (1994), Melbourne.

"Statistical Mechanics and the Black Hole Density of States" - June (1994), Adelaide.

"The Gravitational Collapse Problem" - July (1994), Canberra.

"Singularities in Gravitational Collapse" - July (1994), Brisbane; August (1994), UWM, Milwaukee.

"Hamiltonian Thermodynamics of the Schwarzschild Black Hole" November (1994), Gainesville (Mathematics/Physics); August (1995), Florence.

"Boundary Data for Self Gravitating Systems in a State of Thermal Equilibrium" - May (1995), Canberra.

"Combining Thermodynamics and Gravitation" - May (1995), St Louis University, Parks Campus.

"Elemental Steps along the Gravitational Quantum Path!" - May (1995), Washington University, St Louis.

"Focusing the Quantum Microscope on Singularity Formation" - September (1995), Erice (Sicily).

"Singularity Avoidance During Gravitational Collapse" - May (1996), Moscow, Ascona (Switzerland).

"Thermodynamics for Black Holes and Other Self-gravitating Systems" - July (1996), Telluride, Co.

"Gravitation and Thermodynamics - Investigating the Weyl Curvature Hypothesis" - December (1996), Chicago (poster presentation).

"Gravitation and Thermodynamics" - October (1996), Gainesville, Maryland.

"Input Optics for LIGO" - December (1997), Pune (India).

"Noise Characterization for Gravitational Wave Observatories" - December (1997), Pune (India).

"Investigating Singularity Avoidance during Gravitational Collapse" - July (1998), Utrecht (Holland).

"Noise Characterization for Laser Interferometer Data" - July (1998), Sydney (Australia).

"Signal Analysis for Laser Interferometers" - July (1998), Sydney (Australia).

"Hamiltonians for Spherical Symmetry in General Relativity" - July (1998), Hobart (Tasmania).

"Understanding Singularities in Gravitational Collapse" - December (1998), Bilbao (Spain).

"Noise Characterization for Gravitational Wave Detection" - May (1999), Canberra.

"Progress in Noise Characterization" - July (1999), Stanford.

"Bars & Mirrors ... & Noise (Non-Gaussian)" - December (1999), Rome.

"Line Removal Techniques – A Discussion" - March (2000), Livingston (Louisiana).

"Comparison of Line Removal Techniques" - August (2000), Hanford (Washington State).

"Line Noise Removal" - December (2000), Baton Rouge (Louisiana).

"Metric Perturbations in Black Hole Spacetimes and the Radiation Condition in Vacuum Spacetimes" - May (2001), Golm (Germany).

"A Unique Rôle for Algebraically Special Perturbations in Gravitational Wave Research" - June (2001), Cambridge; July (2001) Perth.

"Metric Perturbations of the Kerr Black Hole" - May (2002), Penn. State.

"Convergence in Numerical Calculations of Radiation Reaction Effects" - June (2002), Penn. State.

"Green's Function Decomposition, Smoothness and Binary Inspiral" - June (2002), Moscow.

"Window Design (e.g. For Stochastic Analysis)" - March (2003), Livingston (La).

"Radiation Reaction: Where are we going now?" - June (2003), Kyoto (Japan).

"Radiation Reaction and the Principle of Equivalence" - August (2003), LSU, Baton Rouge (La).

"Exploring Black Hole Physics - General Relativity and the Principle of Equivalence" - Colloquium, September (2003), Gainesville.

"Progress in Black Hole Perturbation Analysis" - October (2003), Montréal (Québec), Canada.

"A basis for generalized perturbations of the Kerr black hole, etc" - May (2004), Brownsville (Tx).

"Metric perturbations for Kerr" - June (2004), Brownsville (Tx).

"Metric perturbations and self-force calculations for static and rotating black holes" - June (2004), Southampton, UK.

"Self-force effects in gravity and the LISA experiment" - July (2004), Utrecht, Holland.

"Equations in the metric perturbation of black hole space-times" - April (2005), Gainesville (Mathematics).

"Steps toward metric perturbations in the Kerr space-time" - July (2005), Abingdon, UK.

"The Equivalence Principle: part of Einstein's Legacy" - July (2005), Cardiff (Wales), Kyoto (Japan).

"Limits to stochastic searches" - Dec. (2005), poster with Vuk Mandic at GWDAW 10, Brownsville (Tx).

"Details for binary gravitational systems" - March (2006), Boca Raton (Fl).

"Magnetic correlations between Hanford and Livingston" - March (2006), Hanford (Wa), with Shourov Chatterji, Vuk Mandic and Robert Schofield.

"The dawn of a golden age - report on recent results in numerical relativity" - March (2006), Hanford (Wa), with Manuela Campanelli.

"Exploring the Equivalence Principle: extending Einstein's legacy" - April (2006), Colloquium, WFU Physics Department, Winston-Salem (NC).

"Data Analysis presentation and discussion lead" - May (2006), Astrophysical Applications of Numerical Relativity Workshop, Guanajuato, Mexico.

"Investigating higher-ℓ jump conditions for circular orbits in the Kerr geometry" - June (2006), Milwaukee, WI.

"LIGO data and the Stochastic Gravitational Wave Background" - April (2007), APS Meeting, Jacksonville (FL).

"Progress with Kerr black hole perturbations" - June (2007), Huntsville (AL).

"The non-radiated multipoles in the perturbed Kerr spacetime" - July (2007), 18th GR Conference, Sydney (Australia).

"Stochastic Gravitational-wave searches with LIGO and Virgo data" - July (2007), (poster) 7th Amaldi Meeting, Sydney (Australia).

"Recent progress in the perturbations of black hole spacetimes" - July (2007), Monash University, Melbourne (Australia); December (2007), Rochester Institute of Technology (RIT), Rochester (NY).

"Post-Newtonian and self-force calculations" - June (2008), Post Newton 2008 International Workshop, Jena (Germany).

"Post-Newtonian and self-force calculations for EMRI sources" - June (2008), 7th International LISA Symposium, Barcelona (Spain).

"Mathematical issues, post-Newtonian comparison, rotating spacetime features" - June (2008), Summer School on Mass and Motion in General Relativity, Orléans (France).

"Where are we going with post-Newtonian comparison" - June (2008), 11th Capra Meeting and Workshop, Orléans (France).

"International REU in Gravitational-wave Physics" - March (2009), APS March meeting, Pittsburgh (PA).

"Role of PN approximations in EMRI calculations" - June (2009), 12th Capra Meeting, Bloomington (IN); July (2009), 12th Marcel Grossman Meeting, Paris (France).

"Searching for an isotropic or spatially structured background of stochastic gravitational waves using long-baseline interferometers" for the LIGO Collaboration and the Virgo Collaboration - July (2009), 12th Marcel Grossman Meeting, Paris (France).

"Exploring the Equivalence Principle: Extending Einstein's Legacy" - October (2009), Physics Department Colloquium, USF, Tampa.

"Role of PN approximations in EMRI calculations" - November (2009), UWM, Milwaukee.

"Stochastic gravitational wave background results from LIGOs long-baseline interferometers" - December (2009), Miami 2009, Ft Lauderdale (FL).

"Astrophysical results from searching LIGO data for Gravitational Waves" - April (2010), Cook's Branch Nature Conservancy, Montgomery County (Tx).

"Merging numerical results with post-Newtonian analysis" - June (2010), Perimeter Institute, Waterloo (Canada); GR19, Mexico City (Mexico).

"Introduction to stochastic gravitational wave searches" - July (2010), APCTP, Pohang (Korea).

"A tribute to DeWitt and contributions to post-Newtonian calculations" - March (2011), Cook's Branch Nature Conservancy, Montgomery County (Tx).

"Capra's changing landscape" - July (2011), Southampton (UK).

"Exploring the self-force−post-Newtonian interface" - June (2012), Maryland, MD.

"15 years on: a review of self force progress since MiSaTa(QuWa)" - December (2012), Kyoto, Japan.

"A review of progress in the gravitational self-force problem" - March (2013), Dublin, Ireland; June (2013) Regensburg, Germany, July (2013) Cambridge, UK.

"Inspiring undergraduate interest: aspects of the NSF's IREU program" - July (2013), Warsaw, Poland.

"Reflections on evolving Capra" - July (2013), Dublin, Ireland.

"High precision self-force calculations and post-Newtonian implications" - April (2014), Gainesville, FL; July (2014) Marseille, France, plenary talk.

"Gravitational waves from r-modes in newborn neutron stars" - June (2015), Gwangju, South Korea; July (2015) Monash University, Australia; December (2015) Utrecht, Netherlands.

"Capra round-up: Then and now" - July (2015), Kyoto, Japan.

"Black hole evaporation and classical gravitational waves: comparison of calculations techniques" - August (2015), Stockholm, Sweden.

"Gauge invariant perturbations of Petrov type D space-times" - April (2016), Salt Lake City, Utah; June (2016), Meudon, France; July (2016) Columbia University, New York.

"Steve, the physicist" - June (2016), Meudon, France.

"A stochastic gravitational-wave background from binary black hole mergers" - July (2016) Columbia University, New York

"Thermodynamics and Gravitation" - May (2017), Jerusalem, Israel.

"Capra roundup: perspective and prospects" - June (2017), UNC, Chapel Hill.

"A stochastic gravitational-wave background from binary black hole mergers" - June (2017) IAP, Paris, France.

"Science drivers for 3G: fundamental physics and cosmology" - August 2017, Directed Panel Discussion at PAX Meeting, NIKHEF, Amsterdam, Netherlands.

"Analysis Challenges for 3G Gravitational Wave Detectors" - August, 2018, IV$^{\text{th}}$ Physics and Astrophysics at the eXtreme (PAX-IV) Meeting, IUCCA, Pune, India; Discussion Panel Organizer.

"Topics in Gravitational Wave Physics" - October 2018, Four lecture mini-course at IV José Plínio Baptista School on Cosmology: Gravitational Waves, Pedra Azul - Domingos Martins, ES, Brazil.