

CV – Mark Hannam

PERSONAL INFORMATION

Hannam, Mark

Date of birth: February 4, 1974.

Web site: <http://www.cardiff.ac.uk/people/view/913806-hannam-mark>

Employment

2019- Director of Cardiff Gravity Exploration Institute
2015- Professor of Physics, Cardiff University
Oct 2010-15 STFC Advanced Fellow, Cardiff University, UK.
Oct 2009-10 Lise-Meitner Fellow, Universität Wien, Austria.
July 2009 Visiting professor, University of the Balearic Islands, Palma de Mallorca, Spain.
2008-2009 Senior researcher, Physics Department, University College Cork, Ireland.
2005-2008 Postdoctoral researcher, Friedrich-Schiller-Universität, Jena, Germany
2003-2005 Postdoctoral researcher, Center for GW Astronomy, The University of Texas at Brownsville

Education

1997-2003 PhD, The University of North Carolina at Chapel Hill. Advised by Gregory B Cook. Thesis title, "Initial data for binary black holes in quasi-circular orbit: the conformal thin-sandwich puncture method".
1995-1997 MSc in Physics, Univ. of Canterbury, New Zealand. Thesis title, "Spin-rotation coupling".
1992-1995 BSc in Physics and Mathematics, University of Waikato, New Zealand.

Grants Obtained

2015-19 ERC Consolidator Grant (€2 million).
2013-17 (co-I) STFC Consolidated Grant (£250,000: 16% salary 2015-; plus one postdoc)
2010-15 Science and Technologies Funding Council Advanced Fellowship (£247,000).
2010 Halliday Prize for top Advanced Fellowship recipient amongst 187 candidates (£50,000).
2010-13 Austrian Science Foundation (FWF) Standalone Project, Vienna (€226,000).
2009-10 Lise-Meitner Fellowship, Vienna, Austria (€127,000).

Academic Supervision

Postdocs

Jonathan Thompson (2018-)
Francesco Pannarale (2017-18).
Alex Vano-Vinuales (2015-19)
Lionel London (2015-19).
Frank Ohme (Research Fellow, 2015-16).
Michael Puerrer (2011-15)

PhD students

David Yeeles (2017-)
Eleanor Hamilton (2016-)
Chinmay Kalaghatki (2015-)
Edward Fauchon-Jones (2015-)
Gernot Heissel (2013-17). Graduated November 2017; then postdoc in Vienna.
Sebastian Khan (2012-16). Graduated July 2016; then postdoc at AEI, Hannover.
Patricia Schmidt (2010-14). Graduated July 2014; then postdoc at Caltech.

Co-supervision:

One PhD student (completed 2009), Victoria University of Wellington, New Zealand.
Two MSc students (2003-4, UTB; 2007-8, UCC).

Teaching

2015-18	PX4124. Introduction to General Relativity.
2013-14	PX3143/4117. Computational Physics.
2011	Deputy Module Organizer, Topics in Astronomy, and Structured Programming.
2010	Lecturer, Numerical Relativity, University of Vienna.
2009	Lecturer, PY2103, Electrostatics and Magnetostatics, University College Cork.
1997	Physics Lecturer, University of Waikato, New Zealand.

International collaborations

- Member of LIGO Scientific Collaboration (LSC); Council member 2010-
- Co-organizer of the NINJA and NINJA-2 projects. (<http://www.ninja-project.org>).
- Member, Astrophysics Working Group for the Einstein Telescope FP7 Design Study.

Recognition

- Associate of International Centre for Theoretical Sciences, Bangalore, India (2014-).
- Regularly invited to international workshops, conferences and summer schools; recent examples are the Physics and Astronomy at the Extreme (PAX) workshop, Amsterdam, August 2017; the opening symposium of the Ogden Centre for Theoretical Physics, Durham, UK, March 2017; and the Scottish Universities Summer School in Physics, St Andrews, UK, July 2017.
- Invited to give numerous university seminars nationally (Birmingham, Glasgow, Imperial College, Queen Mary, Southampton, UCL, York) and internationally (Cornell, Krakow, UNC-Chapel Hill, Victoria University of Wellington, Vienna).

Professional activities

- Referee for Physical Review Letters, Physical Review D, Classical and Quantum Gravity.
- Science and Technology Funding Council (STFC):
Fellowship reviewer (2011-), Fellowships Panel Member (2019)
- DiRAC Project Board Member (2016-)
- Secretary IOP Gravitational Physics Group (2016-)
- Co-organizer of the 2011 NRDA and Amaldi 9 conferences, Cardiff UK (July 2011)

Publications

[Includes only LIGO-Virgo collaboration papers for which I made a substantial contribution.

Total citeable papers : 144. Total citations : 24,300. h-index : 65]

1. V. Tiwari, S. Fairhurst, M. Hannam, *Astrophys.J.* 868 no.2, 140 (2018).
2. R. Dudi, F. Pannarale, T. Dietrich, M. Hannam, S. Bernuzzi, F. Ohme, B. Brügmann, *Phys.Rev. D98* no.8, 084061 (2018).
3. E. Hamilton, M. Hannam, *Phys.Rev. D98* no.8, 084018 (2018).
4. K. Slinker, C. R. Evans, M. Hannam, *Phys.Rev. D98* no.4, 044014 (2018).
5. A. Nagar, *et. al.*, *Phys.Rev. D98* 104052 (2018).
6. L. London, S. Khan, E. Fauchon-Jones, C. Garcia, M. Hannam, *et. al.*, *Phys.Rev.Lett.* 120, 16, 161102 (2018.)
7. LIGO-Virgo Collaboration, *Ap.J.Lett.* L35, 851 (2017). (GW170608 detection paper.)
8. LIGO-Virgo Collaboration, *Phys.Rev.Lett.* 119, 16, 161101 (2017). (GW170817 detection paper.)
9. LIGO-Virgo Collaboration, *Phys.Rev.Lett.* 119, 14, 141101 (2017). (GW170814 detection paper.)
10. D. Keitel, *et. al.*, *Phys.Rev.D96*, 2, 024006 (2017).
11. LIGO-Virgo Collaboration, *Class.Quant.Grav.* 34, 10, 104002 (2017). (GW150914 systematics paper.)
12. X. Jimenez-Forteza, *et. al.*, *Phys.Rev. D95*, 6, 064024 (2017).
13. LIGO-Virgo Collaboration, *Phys.Rev.Lett.* 118, 22, 221101 (2017). (GW170104 detection paper.)
14. LIGO-Virgo Collaboration, *Phys.Rev. X6*, 4, 041015 (2016). (Full O1 results paper.)
15. LIGO-Virgo Collaboration, *Phys.Rev.Lett.* 116, 24, 241103 (2016). (GW151226 detection paper.)
16. LIGO-Virgo Collaboration, *Phys.Rev.Lett.* 116, 22, 221101 (2016). (GW150914 Testing GR paper.)
17. LIGO-Virgo Collaboration, *Astrophys.J.* 818, 2, L22 (2016). (GW150914 Astrophysics paper.)
18. LIGO-Virgo Collaboration, *Phys.Rev.Lett.* 116, 24, 241102 (2016). (GW150914 Parameter estimation paper.)

19. LIGO-Virgo Collaboration, Phys.Rev.Lett. 116, 6, 061102 (2016). (GW150914 detection paper.)
20. M. Puerrer, M. Hannam, F. Ohme, Phys.Rev. D93, 8, 084042 (2016).
21. S. Khan, S. Husa, M. Hannam, et. al., Phys.Rev. D93, 4, 044007 (2016).
22. S. Husa, S. Khan, M. Hannam, et. al., Phys.Rev. D93, 4, 044006 (2016).
23. P. Schmidt, F. Ohme, M. Hannam, Phys.Rev. D91, 2, 024043 (2015).
24. The NINJA Collaboration, Class.Quant.Grav. 31 115004 (2014).
25. M. Hannam, Gen.Rel.Grav. 46 1767 (2014).
26. M. Hannam, et. al., Phys.Rev.Lett. 113, 15, 151101 (2014).
27. The NRAR Collaboration, Class.Quant.Grav 31 025012 (2014).
28. M. Puerrer, M. Hannam, P. Ajith, S. Husa, Phys.Rev.D 88, 064007 (2013).
29. M. Hannam, D. Brown, S. Fairhurst, C. Fryer, I. Harry, ApJ Lett, L14, 766 (2013).
30. E. Baird, S. Fairhurst, M. Hannam, P. Murphy, Phys. Rev. D 87, 024035 (2013).
31. P. Schmidt, M. Hannam, S. Husa, Phys.Rev.D 86, 104063 (2012).
32. I. Kamaretsos, M. Hannam, B. Sathyaprakash, Phys. Rev. Lett. 109, 141102 (2012).
33. The NINJA Collaboration, Class. Quant. Grav. 29, 124001 (2012).
34. I. Kamaretsos, M. Hannam, S. Husa, B.S. Sathyaprakash, Phys. Rev. D 85, 024018 (2012).
35. ET Science Team, Class.Quant.Grav. 29 (2012) 124013.
36. M. Puerrer, S. Husa, M. Hannam, Phys.Rev. D85 (2012) 124051.
37. F. Ohme, M. Hannam, S. Husa, Phys.Rev. D84 (2011) 064029.
38. P. Schmidt, M. Hannam, S. Husa, P. Ajith, Phys. Rev. D 84, 024046 (2011).
39. P. Ajith, M. Hannam, S. Husa, et. al., Phys. Rev. Lett 106 (2011) 241101.
40. ET Science Team, Class.Quant.Grav. 28 (2011) 094013.
41. ET Science Team, Class.Quant.Grav. 27 (2010) 194002.
42. M. Hannam, S. Husa, F. Ohme, P. Ajith, Phys.Rev. D82 (2010) 124052.
43. M. Hannam, S. Husa, F. Ohme, D. Müller, B. Brügmann, Phys.Rev. D82 (2010) 124008.
44. L. Santamaria, et. al., Phys Rev D 82, 064016 (2010).
45. ET Science Team, Class.Quant.Grav. 27 (2010) 084007.
46. M. Hannam and I. Hawke, Gen.Rel.Grav. 43 (2011) 465-483.
47. M. Hannam, S. Husa, N. Ó Murchadha, Phys. Rev. D80, 124007 (2009).
48. The NINJA Collaboration, Class.Quant.Grav. 26 (2009) 114008.
49. F. Ohme, M. Hannam, S. Husa, N. Ó Murchadha, Class.Quant.Grav. 26 (2009) 175014.
50. The NINJA collaboration, Class. Quantum Grav. 26 165008 (2009).
51. M. Hannam, Class. Quantum Grav. 26, 114001 (2009).
52. M. Hannam, et. al, Phys. Rev. D 79, 084025 (2009).
53. M. Hannam, S. Husa, F. Ohme, B. Brügmann, N. Ó Murchadha, Phys. Rev. D 78, 064020 (2008).
54. T. Damour, A. Nagar, M. Hannam, S. Husa, B. Brügmann, Phys. Rev. D 78, 044039 (2008).
55. M. Hannam, S. Husa, B. Brügmann, A. Gopakumar, Phys. Rev. D 78, 104007 (2008).
56. A. Gopakumar, M. Hannam, S. Husa, B. Brügmann, Phys.Rev. D78 (2008) 064026.
57. P. Ajith, et. al., Phys. Rev. D 77, 104017 (2008).
58. B. Brügmann, J. A. González, M. Hannam, S. Husa, U. Sperhake, Phys. Rev. D 77, 124047 (2008).
59. M. Hannam, S. Husa, U. Sperhake, B. Brügmann, J. A. González, Phys. Rev. D 77, 044020 (2008).
60. S. Husa, M. Hannam, J. A. González, U. Sperhake, B. Brügmann, Phys.Rev. D77 (2008) 044037.
61. S. Husa, J. A. González, M. Hannam, B. Brügmann, U. Sperhake, Class.Quant.Grav. 25 (2008) 105006.
62. P. Ajith, et. al., Class.Quant.Grav. 24 (2007) S689-S700.
63. E. Berti, et. al., Phys.Rev. D76 (2007) 064034.
64. J. A. Gonzalez, M. Hannam, U. Sperhake, B. Brügmann, S. Husa, Phys. Rev. Lett. 98, 231101 (2007).
65. P. Marronetti, et. al., Class.Quant.Grav. 24 (2007) S43-S58.
66. M. Hannam, et. al., Journal of Physics: Conference Series 66 (2007) 012047.
67. M. Hannam, S. Husa, B. Brügmann, J. Gonzalez, U. Sperhake, Class. Quantum Grav. 24 (2007) S15-S24.
68. J. Gonzalez, U. Sperhake, B. Brügmann, M. Hannam, S. Husa, Phys. Rev. Lett. 98, 091101 (2007).
69. B. Brügmann, et. al., Phys. Rev. D77 024027 (2008).
70. M. Hannam, S. Husa, D. Pollney, B. Brügmann, N. Ó Murchadha, Phys. Rev. Lett. 99, 241102 (2007).
71. M. Campanelli, M. Dettwyler, M. Hannam, C. Lousto, Phys.Rev. D74 (2006) 087503.
72. M. Hannam, Phys.Rev. D72 (2005) 044025.
73. M. Hannam, G. Cook, Phys.Rev. D71 (2005) 084023.
74. M. Hannam, C. Evans, G. Cook, T. Baumgarte, Phys.Rev. D68 (2003) 064003.
75. M. Hannam, W. Thomson, Nucl. Instr. Methods A, 431, 239-251 (1999).
76. B. Mashhoon, R. Neutze, M. Hannam, G. Stedman, Phys. Lett A, 249, 161-166 (1998).