

LIST OF PUBLICATIONS

1. P. Ajith, *On aspects of gravitational-wave detection: Detector characterisation, data analysis and source modelling for ground-based detectors*. Ph.D. thesis, Max Planck Institute for Gravitational Physics (Albert Einstein Institute) and Leibniz University of Hannover (2007).
2. P. Ajith, *Gravitational-wave data analysis using binary-black-hole waveforms*, Invited contribution to the proceedings of Amaldi 7 meeting; Submitted to *Class. Quantum Grav.* (2007). arXiv:0712.0343 [gr-qc].
3. P. Ajith *et al.*, *A template bank for gravitational waveforms from coalescing binary black holes: I. non-spinning binaries*, Submitted to *Phys. Rev. D* (2007). arXiv:0710.2335 [gr-qc].
4. P. Ajith, M. Hewitson, J. R. Smith, H. Grote, S. Hild and K. A. Strain, *Physical instrumental vetoes for gravitational-wave burst triggers*, *Phys. Rev. D* **76** 042004 (2007).
5. P. Ajith *et al.*, *Phenomenological template family for black-hole coalescence waveforms*, *Class. Quantum Grav.* **24** S689–S699 (2007).
6. S. Hild, P. Ajith, M. Hewitson, H. Grote and J. R. Smith, *A statistical veto method employing an amplitude consistency test*, *Class. Quantum Grav.* **24** 3783–3798 (2007).
7. P. Ajith, M. Hewitson, J. R. Smith and K. A. Strain, *Robust vetoes for gravitational-wave burst triggers using known instrumental couplings*, *Class. Quantum Grav.* **23** 5825–5837 (2006).
8. P. Ajith, M. Hewitson and I. S. Heng, *Null-stream veto for two co-located detectors: Implementation issues*, *Class. Quantum Grav.* **23** S741–S749 (2006).
9. J R Smith, P Ajith, H Grote, M Hewitson, S Hild, H Lück, K A Strain, B Willke, J Hough and K Danzmann, *Linear projection of technical noise for interferometric gravitational-wave detectors*, *Class. Quantum Grav.* **23** 527–537 (2006).
10. M. Hewitson and P. Ajith, *Using the null-stream of GEO 600 to veto transient events in the detector output*, *Class. Quantum Grav.* **22** 4903–4912 (2005).
11. M. Hewitson, H. Grote, S. Hild, H. Lück, P. Ajith, J. R. Smith, K. A. Strain, B. Wilke and G. Woan, *Optimal time-domain combination of the two calibrated output quadratures of GEO 600*, *Class. Quantum Grav.* **22** 4253–4261 (2005).
12. P. Ajith, B. R. Iyer, C. A. K. Robinson and B. S. Sathyaprakash, *Complete adiabatic waveform templates for a test-mass in the Schwarzschild spacetime: VIRGO and Advanced LIGO studies*, *Class. Quantum Grav.* **22** S1179–S1188 (2005).
13. P. Ajith, B. R. Iyer, C. A. K. Robinson and B. S. Sathyaprakash, *A new class of post-Newtonian approximants to the waveform templates of inspiralling compact binaries: Test-mass in the Schwarzschild spacetime*, *Phys. Rev. D* **71** 044029 (2005).

SELECTED PUBLICATIONS FROM THE LIGO SCIENTIFIC COLLABORATION

1. B. Abbott *et al.* (LIGO Scientific Collaboration and ALLEGRO Collaboration), *First cross-correlation analysis of interferometric and resonant-bar gravitational-wave data for stochastic backgrounds*, *Phys. Rev. D* **76**, 022001 (2007).

2. B. Abbott *et al.* (LIGO Scientific Collaboration), *Upper limit map of a background of gravitational waves*, Phys. Rev. D **76**, 082003 (2007).
3. B. Abbott *et al.* (LIGO Scientific Collaboration), *Search for gravitational wave radiation associated with the pulsating tail of the SGR 1806-20 hyperflare of 27 December 2004 using LIGO*, Phys. Rev. D **76**, 062003 (2007).
4. B. Abbott *et al.* (LIGO Scientific Collaboration), *Search for gravitational-wave bursts in LIGO data from the fourth science run*, arXiv:0704.0943 [gr-qc].
5. B. Abbott *et al.* (LIGO Scientific Collaboration), *Upper limits on gravitational wave emission from 78 radio pulsars*, Phys. Rev. D **76**, 042001 (2007).
6. B. Abbott *et al.* (LIGO Scientific Collaboration), *Searching for a stochastic background of gravitational waves with LIGO*, Astrophys. J. **659**, 918 (2007).
7. B. Abbott *et al.* (LIGO Scientific Collaboration), *Coherent searches for periodic gravitational waves from unknown isolated sources and Scorpius X-1: Results from the second LIGO science run*, arXiv:gr-qc/0605028.
8. B. Abbott *et al.* (LIGO Scientific Collaboration and TAMA Collaboration), *Joint LIGO and TAMA300 search for gravitational waves from inspiralling neutron star binaries*, Phys. Rev. D **73**, 102002 (2006).
9. B. Abbott *et al.* (LIGO Scientific Collaboration), *Search for gravitational wave bursts in LIGO's third science run*, Class. Quant. Grav. **23**, S29 (2006).
10. B. Abbott *et al.* (LIGO Scientific Collaboration), *Search for gravitational waves from binary black hole inspirals in LIGO data*, Phys. Rev. D **73**, 062001 (2006).
11. B. Abbott *et al.* (LIGO Scientific Collaboration), *First all-sky upper limits from LIGO on the strength of periodic gravitational waves using the Hough transform*, Phys. Rev. D **72**, 102004 (2005).
12. B. Abbott *et al.* (LIGO Scientific Collaboration and TAMA Collaboration), *Upper limits from the LIGO and TAMA detectors on the rate of gravitational-wave bursts*, Phys. Rev. D **72**, 122004 (2005).
13. B. Abbott *et al.* (LIGO Scientific Collaboration), *Upper limits on a stochastic background of gravitational waves*, Phys. Rev. Lett. **95**, 221101 (2005).

S E L E C T E D P U B L I C A T I O N S F R O M T H E G E O C O L L A B O R A T I O N

1. B. Willke *et al.*, *The GEO-HF project*, Class. Quant. Grav. **23**, S207 (2006).
2. H. Luck *et al.*, *Status of the GEO600 detector*, Class. Quant. Grav. **23**, S71 (2006).