

REFERRED JOURNAL PAPERS

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Abbott, B.P., et al.: "Astrophysical Implications of the Binary Black-Hole Merger GW150914," *ApJL*, **818**, L22 (2016)

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Inta, R., Smith, J. and Wolfe, J.: "Measurement of the effect on violins of ageing and playing," *Acoustics Australia*, **33**, pp. 25-29 (2005)

UPCOMING (ARXIV) PAPERS

Abbott, B.P., et al.: "A First Targeted Search for Gravitational-Wave Bursts from Core-Collapse Supernovae in Data of First-Generation Laser Interferometer Detectors," arXiv:1605.01785

Abbott, B.P., et al.: "Calibration of the Advanced LIGO detectors for the discovery of the binary black-hole merger GW150914," arXiv:1602.03845

Abbott, B.P., et al.: "Exploring the Sensitivity of Next Generation Gravitational Wave Detectors," arXiv:1607.08697

Abbott, B.P., et al.: "Results of the deepest all-sky survey for continuous gravitational waves on LIGO S6 data running on the Einstein@Home volunteer distributed computing project," arXiv:1606.09619

Abbott, B.P., et al.: "Search for continuous gravitational waves from neutron stars in globular cluster NGC 6544," arXiv:1607.02216

Abbott, B.P., et al.: "The Rate of Binary Black Hole Mergers Inferred from Advanced LIGO Observations Surrounding GW150914," arXiv:1602.03842

Abbott, B.P., et al.: "Upper limits on the rates of binary neutron star and black-hole neutron-star mergers from Advanced LIGOs first observing run," arXiv:1607.07456

REFERRED CONFERENCE PAPERS / PRESENTATIONS

Inta, R. (for the LIGO-Virgo Scientific Collaboration): "Searches for continuous gravitational waves in the advanced detector era," *Gravitational Wave Physics and Astronomy Workshop (GWPAW)*, Hyannis, Cape Cod, Massachusetts, USA (2016)

Inta, R.: "New Applications of Sparse Methods in Physics," *the 20th Australian Institute of Physics Congress*, Sydney, Australia (9-13 Dec. 2012)

Inta, R.: "Current Status of the Analysis of Data from Ground-based Gravitational Wave Observatories," *the 20th Australian Institute of Physics Congress*, Sydney, Australia (9-13 Dec. 2012)

Inta, R.: "Hardware Acceleration of Parallel Algorithms," *the 20th Australian Institute of Physics Congress*, Sydney, Australia (9-13 Dec. 2012)

Inta, R.: "Exploiting sparse methods for gravitational wave detection," *Gravitational Wave Physics and Astronomy Workshop (GWPAW)*, Hannover, Germany (4-7 June 2012)

Inta, R.: "Sparse methods for improving gravitational wave detection," *the 7th Conference on Astronomical Data Analysis*, Cargèse, Corsica (14-18 May 2012)

Inta, R.: "Compressive sampling techniques for improving the localisation of gravitational wave burst events," *the Sixth Australasian Conference on General Relativity and Gravitation*, Queenstown, New Zealand (8 – 11 Feb. 2012)

Inta, R., Scott, S. M. and Owen, B.: "Gravitational waves from non-pulsing young neutron stars," *19th Australian Institute of Physics Congress*, Melbourne (Dec. 2010)

Inta, R. and Scott, S. M.: "Using gravitational wave triggers to direct multi-messenger astronomy," *19th Australian Institute of Physics Congress*, Melbourne (Dec. 2010)

Inta, R. and Bowman, D. J.: "An FPGA/GPU/CPU hybrid platform for solving hard computational problems," *eResearch Australasia 2010*, Gold Coast, Australia (Nov. 2010)

Inta, R. and Susan M. Scott: "LIGO-Virgo: detecting ripples in space-time is currently a data analysis problem," *eResearch Australasia 2010*, Gold Coast, Australia (Nov. 2010)

Inta, R.: "Directed continuous gravitational wave searches within isolated supernova remnants," *Australian International Gravitational Observatory Conference*, Perth, Western Australia (Feb. 2010)

Inta, R.: "Catching a wave: Interesting science discovered en route to the detection of gravitational waves using ground-based laser," *5th Australasian Conference on General Relativity and Gravitation*, Christchurch, New Zealand (Dec. 2009)

Lai, J.C.S., Evans, T.E. and **Inta, R.:** "Vibrations: pathway to understanding termite foraging behaviour," *Proc. 19th International Congress on Acoustics*, Madrid, Spain (September 2007).

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Inta, R., Smith, J. and Wolfe, J.: "A study of ageing and playing effects on violins: the first three years," *Proc. 16th Biennial Congress of Australian Institute of Physics*, Canberra, Australia (February 2005).

Inta, R., and Smith, J.: "Determining top plate profiles in assembled guitars via measurements of magnetic field," *Proc. Eighth Western Pacific Acoustics Conference*, Melbourne, Australia (2003).

PATENTS

Evans, T.A., Lenz, M., Lai, J.C.S. and **Inta, R.A.**: “Method and System for Controlling Termites,” Patent Application Number: PCT/AU2007/000215 (Wipo Patent WO/2007/095693, August 30, 2007).

SCIENCE OUTREACH ACTIVITIES

Invited talks:

Various colloquia

University of New South Wales, School seminar (2010)

Australian National University Founder’s Day Talk (2010)

CSIRO Entomology Divisional Seminar (2007)

Canterbury University Departmental Seminar (2010)

Science in the City 2001, 2002, 2003: ‘Science and Music’ lectures

Australian Science Festival 2003: ‘Physics and Phashion’ lecture

Australian Institute of Physics meeting (South Australia, 2005): Ageing of the violin

Television:

Totally Wild (Channel Ten) 2008: Cool stuff with termites

Various seminars/colloquia: ‘Physics and Phashion’ lectures

New Scientists ‘Last Word’: ‘Dead wood,’ 23 April 2005, (
<http://www.newscientist.com/article.ns?id=mg18624963.000>)

Radio: various interviews/mentions, including NPR (termites) and BBC (violin)

Newspapers: various (e.g. *New York Times* (violin, 2006), *Sydney Morning Herald* (termite vibrations, 2007)

Portrait of a Scientist (CSIRO): Portrait of me as a scientist, by a high school student

The Helix magazine (CSIRO) 113, p.8 April 2007: Personal interview

Explore magazine (Pearson Education) Edition 4, 2007: Personal interview

Uniken magazine (UNSW), issue 24 p.5 (June 2005): Violin research

UNSW’s ‘EdTech’ seminar (2004): Talk and demonstration of some of the equipment I made for ‘Exploratorials’ (a novel physics teaching vehicle: <http://www.phys.unsw.edu.au/exploratorials/>)

UNSW physics demonstration unit (2003-2004): Designed and built new demonstrations and experiments for teaching physics concepts, often giving the demonstrations

Dozens of web-pages, from India's DailyIndia.com to Germany's 'Innovations Report'

Guitar Acoustics website (<http://www.phys.unsw.edu.au/music/guitaracoustics/anatomy.html>)

UNSW Physics Postgraduate DVD: Presentation feature on guitar acoustics

Talks at many high schools