

# Gravitational wave data analysis

# Gravitational Wave Data Analysis

**Mario Díaz**



## **Gravitational Wave Data Analysis:**

**Gravitational Wave Data Analysis** B.F. Schutz,2012-12-06 The articles in this book represent the major contributions at the NATO Advanced Research Workshop that was held from 6 to 9 July 1987 in the magnificent setting of Dyffryn House and Gardens in St Nicholas just outside Cardiff Wales The idea for such a meeting arose in discussions that I had in 1985 and 1986 with many of the principal members of the various groups building prototype laser interferometric gravitational wave detectors It became clear that the proposals that these groups were planning to submit for large scale detectors would have to address questions like the following What computing hardware might be required to sift through data coming in at rates of several gigabytes per day for gravitational wave events that might last only a second or less and occur as rarely as once a month What software would be required for this task and how much effort would be required to write it Given that every group accepted that a worldwide network of detectors operating in coincidence with one another was required in order to provide both convincing evidence of detections of gravitational waves and sufficient information to determine the amplitude and direction of the waves that had been detected what sort of problems would the necessary data exchanges raise Yet most of the effort in these groups had quite naturally been concentrated on the detector systems [Gravitational Wave Data Analysis](#) B. F. Schutz,1989-01-31 *Gravitational Wave Detection and Data Analysis for Pulsar Timing Arrays* Rutger van Haasteren,2013-09-12 Pulsar timing is a promising method for detecting gravitational waves in the nano Hertz band In his prize winning Ph D thesis Rutger van Haasteren deals with how one takes thousands of seemingly random timing residuals which are measured by pulsar observers and extracts information about the presence and character of the gravitational waves in the nano Hertz band that are washing over our Galaxy The author presents a sophisticated mathematical algorithm that deals with this issue His algorithm is probably the most well developed of those that are currently in use in the Pulsar Timing Array community In chapter 3 the gravitational wave memory effect is described This is one of the first descriptions of this interesting effect in relation with pulsar timing which may become observable in future Pulsar Timing Array projects The last part of the work is dedicated to an effort to combine the European pulsar timing data sets in order to search for gravitational waves This study has placed the most stringent limit to date on the intensity of gravitational waves that are produced by pairs of supermassive black holes dancing around each other in distant galaxies as well as those that may be produced by vibrating cosmic strings Rutger van Haasteren has won the 2011 GWIC Thesis Prize of the Gravitational Wave International Community for his innovative work in various directions of the search for gravitational waves by pulsar timing The work is presented in this Ph D thesis [Analysis of Gravitational-Wave Data](#) Piotr Jaranowski,Andrzej Krolak,2009-08-27 Research in this field has grown considerably in recent years due to the commissioning of a world wide network of large scale detectors This network collects a very large amount of data that is currently being analyzed and interpreted This book introduces researchers entering the field and researchers currently analyzing the data to the field of gravitational wave data

analysis An ideal starting point for studying the issues related to current gravitational wave research the book contains detailed derivations of the basic formulae related to the detectors responses and maximum likelihood detection These derivations are much more complete and more pedagogical than those found in current research papers and will enable readers to apply general statistical concepts to the analysis of gravitational wave signals It also discusses new ideas on devising the efficient algorithms needed to perform data analysis *Proceedings of the 8th Gravitational Wave Data Analysis Workshop* Gravitational Wave Data Analysis Workshop,2004 **Gravitational Wave Data Analysis Searching for Gravitational Waves from Low-mass X-ray Binaries** Christopher Messenger,2006 *Special Issue: Proceedings of the 10th Gravitational Wave Data Analysis Workshop, Brownsville, Texas, USA, 14 - 17 December 2005* Gravitational Wave Data Analysis Workshop,M. Diaz,2006 **Analysis of Gravitational-wave Data** Piotr Jaranowski,2009 Research in this field has grown considerably in recent years due to the commissioning of a world wide network of large scale detectors This network collects a very large amount of data that is currently being analyzed and interpreted This book introduces researchers entering the field and researchers currently analyzing the data to the field of gravitational wave data analysis An ideal starting point for studying the issues related to current gravitational wave research the book contains detailed derivations of the basic formulae related to the detectors responses and maximum likelihood detection These derivations are much more complete and more pedagogical than those found in current research papers and will enable readers to apply general statistical concepts to the analysis of gravitational wave signals It also discusses new ideas on devising the efficient algorithms needed to perform data analysis **Proceedings of the 12th Gravitational Wave Data Analysis Workshop (GDAW 12) : Cambridge, MA, USA, 13 - 16 December 2007** 2007 Gravitational Wave Data Analysis Workshop 12, Cambridge Mass.,2008 **Bayesian Methods in Cosmology** Michael P. Hobson,2010 Comprehensive introduction to Bayesian methods in cosmological studies for graduate students and researchers in cosmology astrophysics and applied statistics **Advanced Gravitational Wave Detectors** D. G. Blair,2012-02-16 Introduces the technology and reviews the experimental issues a valuable reference for graduate students and researchers in physics and astrophysics **Advances in Machine Learning and Data Mining for Astronomy** Michael J. Way,Jeffrey D. Scargle,Kamal M. Ali,Ashok N. Srivastava,2012-03-29 Advances in Machine Learning and Data Mining for Astronomy documents numerous successful collaborations among computer scientists statisticians and astronomers who illustrate the application of state of the art machine learning and data mining techniques in astronomy Due to the massive amount and complexity of data in most scientific disciplines **Special Issue: Proceedings of the 11th Gravitational Wave Data Analysis Workshop, Potsdam, Germany, 18-21 December 2006** Gravitational Wave Data Analysis Workshop,B. Krishnan,2007 **Proceedings of the 16th International Conference on General Relativity & Gravitation** Nigel Bishop,Sunil D. Maharaj,2002 The 16th conference of the International Society on General Relativity and Gravitation GR16 held at the

International Convention Centre in Durban South Africa from 15 to 21 July was attended by 450 delegates from around the world The scientific programme comprised 18 plenary lectures 1 public lecture and 19 workshops which excepting 3 plenary lectures are presented in this proceedings It was the first major international conference on general relativity and gravitation held on the African continent *Gravitational Wave Science with Machine Learning* Elena Cuoco,2025-04-11 This book highlights the state of the art of machine learning applied to the science of gravitational waves The main topics of the book range from the search for astrophysical gravitational wave signals to noise suppression techniques and control systems using machine learning based algorithms During the four years of work in the COST Action CA17137 A network for Gravitational Waves Geophysics and Machine Learning G2net the collaboration produced several original publications as well as tutorials and lectures in the training schools we organized The book encapsulates the immense amount of finding and achievements It is a timely reference for young researchers approaching the analysis of data from gravitational wave experiments with alternative approaches based on the use of artificial intelligence techniques **Proceedings of the 10th Gravitational Wave Data Analysis Workshop, Brownsville, Texas, USA, 14-17 December 2005** Mario Díaz,2006 De-noising of Gravitational-Wave Data Pablo Barneo,2024-04-10 Since the first experimental evidence for the existence of gravitational waves in 2015 the amount of data in this scientific area has increased enormously There has also been a great deal of interest in the scientific community in gravitational waves The interferometers used to capture these waves need to achieve a high level of instrumental sensitivity to be able to detect and analyse the weak signals emitted by both distant sources of intrinsically high intensity and nearby sources of much lower intensity High sensitivity is often accompanied by high levels of noise that difficult data analysis In nowadays interferometers large amounts of data are recorded with a high percentage of noise from which we attempt to extract the possible gravitational waves buried therein In this dissertation we propose to use a denoising method based on the minimisation of the total variance of the time series that constitute the data Known as the ROF method it assumes that the largest contribution to the total variance of a function comes from noise In this way a minimisation of this variance should lead to a drastic reduction in the presence of noise This denoising procedure helps to improve the detection and data quality of gravitational wave analysis We have implemented two ROF based denoising algorithms in a commonly used gravitational wave analysis software package The analysis package is known as coherent WaveBurst cWB and uses the excess energy from the coherence between data from two or more interferometers to find gravitational waves The denoising methods are the one step regularised ROF rROF and the iterative rROF procedure irROF We have tested both methods using events from the gravitational wave catalogue of the first three observing periods of the LIGO Virgo KAGRA scientific collaboration These events named GW1501914 GW151226 GW170817 and GW190521 comprise different wave morphologies of compact binary systems injected at different noise quality levels **Proceedings of the 11th Gravitational Wave Data Analysis Workshop** B. Krishnan,M. A. Papa,B. Schutz,2007 **Gravitational-Wave**

**Physics and Astronomy** Jolien D. E. Creighton, Warren G. Anderson, 2012-01-09 This most up to date one stop reference combines coverage of both theory and observational techniques with introductory sections to bring all readers up to the same level Written by outstanding researchers directly involved with the scientific program of the Laser Interferometer Gravitational Wave Observatory LIGO the book begins with a brief review of general relativity before going on to describe the physics of gravitational waves and the astrophysical sources of gravitational radiation Further sections cover gravitational wave detectors data analysis and the outlook of gravitational wave astronomy and astrophysics [Proceedings of the 10th Gravitational Wave Data Analysis Workshop ,2006](#)

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