



Gravitational Wave Data Analysis

Pablo Barneo



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 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

First-stage LISA Data Processing and Gravitational Wave Data Analysis Yan

Wang,2015-12-10 This thesis covers a diverse set of topics related to space based gravitational wave detectors such as the Laser Interferometer Space Antenna LISA The core of the thesis is devoted to the preprocessing of the interferometric link data for a LISA constellation specifically developing optimal Kalman filters to reduce arm length noise due to clock noise The approach is to apply Kalman filters of increasing complexity to make optimal estimates of relevant quantities such as constellation arm length relative clock drift and Doppler frequencies based on the available measurement data Depending on the complexity of the filter and the simulated data these Kalman filter estimates can provide up to a few orders of magnitude improvement over simpler estimators While the basic concept of the LISA measurement Time Delay Interferometry was worked out some time ago this work brings a level of rigor to the processing of the constellation level data products The thesis concludes with some topics related to the eLISA such as a new class of phenomenological waveforms for extreme mass ratio inspiral sources EMRIs one of the main source for eLISA an octahedral space based GW detector that does not require drag free test masses and some efficient template search algorithms for the case of relatively high SNR signals

Gravitational Wave Data Analysis Searching for Gravitational Waves from Low-mass X-ray Binaries Christopher Messenger,2006

Second workshop gravitational wave data analysis , *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

De-noising of Gravitational-Wave Data Pablo Barneo,2024-03-11 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 8th Gravitational Wave Data Analysis Workshop*

Gravitational Wave Data Analysis Workshop,2004 **Proceedings of the 12th Gravitational Wave Data Analysis Workshop (GWDAA 12) : Cambridge, MA, USA, 13 - 16 December 2007** 2007 Gravitational Wave Data Analysis Workshop 12, Cambridge Mass.,2008 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

Gravitational-Wave Physics and Astronomy Jolien D. E. Creighton,Warren G. Anderson,2011-10-17 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 *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 **Nanohertz Gravitational Wave Astronomy** Stephen R. Taylor,2021-11-23 Nanohertz Gravitational Wave Astronomy explores the exciting hunt for low frequency gravitational waves by using the extraordinary timing precision of pulsars The book takes the reader on a tour across the expansive gravitational wave landscape from LIGO detections to the search for polarization patterns in the Cosmic Microwave Background then hones in on the band of nanohertz frequencies that Pulsar Timing Arrays PTAs are sensitive to Within this band may lie many pairs of the most massive black holes in the entire Universe all radiating in chorus to produce

a background of gravitational waves The book shows how such extra Galactic gravitational waves can alter the arrival times of radio pulses emanating from monitored Galactic pulsars and how we can use the pattern of correlated timing deviations from many pulsars to tease out the elusive signal The book takes a pragmatic approach to data analysis explaining how it is performed in practice within classical and Bayesian statistics as well as the numerous strategies one can use to optimize numerical Bayesian searches in PTA analyses It closes with a complete discussion of the data model for nanohertz gravitational wave searches and an overview of the past achievements present efforts and future prospects for PTAs The book is accessible to upper division undergraduate students and graduate students of astronomy and also serves as a useful desk reference for experts in the field Key features Contains a complete derivation of the pulsar timing response to gravitational waves and the overlap reduction function for PTAs Presents a comprehensive overview of source astrophysics and the dynamical influences that shape the gravitational wave signals that PTAs are sensitive to Serves as a detailed primer on gravitational wave data analysis and numerical Bayesian techniques for PTAs

Gravitational Waves from Coalescing Binaries Stanislav Babak, 2022-06-01 This book is to help post graduate students to get into gravitational wave astronomy We assume the knowledge of General Relativity theory though we will concentrate on the physics and often omit mathematically strict derivations We provide references to already existing literature where possible this helps us to see a broad picture skipping the details The uniqueness of this book is in that it covers three frequency bands and three major world wide efforts to detect gravitational waves The LIGO and Virgo scientific collaboration has detected first gravitational waves and the merger of black holes become now almost a routine We do expect many discoveries yet to come especially in the joined gravitational and electromagnetic observations LISA the space based gravitational wave observatory will be launched around 2034 and will be able to detect thousands of GW sources in the milli Hz band Pulsar timing array observations have accumulated 20 years worth of data and we expected detection of GWs in the nano Hz band within the next decade We describe the gravitational wave sources and data analysis techniques in each frequency band

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

General Relativity and Gravitational Waves Sanjeev Dhurandhar, Sanjit Mitra, 2022-02-16 This book serves as a textbook for senior undergraduate students who are learning the subject of general relativity and gravitational waves for the first time Both authors have been teaching the course in various forms for a few decades and have designed the book as a one stop book at basic level including derivations and exercises A spectacular prediction of general relativity is gravitational waves Gravitational waves were first detected by the LIGO detectors in 2015 hundred years after their prediction Both authors are part of the LIGO Science Collaboration and were authors on the discovery paper Therefore a strong motivation for this book is to provide the essential concepts of general relativity theory and gravitational waves with their modern applications to students and to

researchers who are new to the multi disciplinary field of gravitational wave astronomy One of the advanced topics covered in this book is the fundamentals of gravitational wave data analysis filling a gap in textbooks on general relativity The topic blends smoothly with other chapters in the book not only because of the common area of research but it uses similar differential geometric and algebraic tools that are used in general relativity

Special Issue: Proceedings of the 12th Gravitational Wave Data Analysis Workshop (GWDAW 12), Cambridge, MA, USA, July 13 - 16 December 2007

Gravitational Wave Data Analysis Workshop, S. Hughes, E. Katsavounidis, 2008

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

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