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## Living Reviews in Relativity

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### Description

*Living Reviews in Relativity* is a peer-reviewed, full open access, and exclusively online journal, publishing freely available reviews of research in all areas of relativity. Articles are solicited from leading authorities and are directed towards the scientific community at or above the graduate-student level. The articles in *Living Reviews* provide critical reviews of the current state of research in the fields they cover. A ... [show all](#)

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## Logo

## URL

<http://link.springer.com/journal/41114>

## Subject

Physics – Reviews - Periodicals

## Accessibility

Free

## Language

English

## Publisher

Springer International Publishing AG. Part of Springer Nature

## Brief History

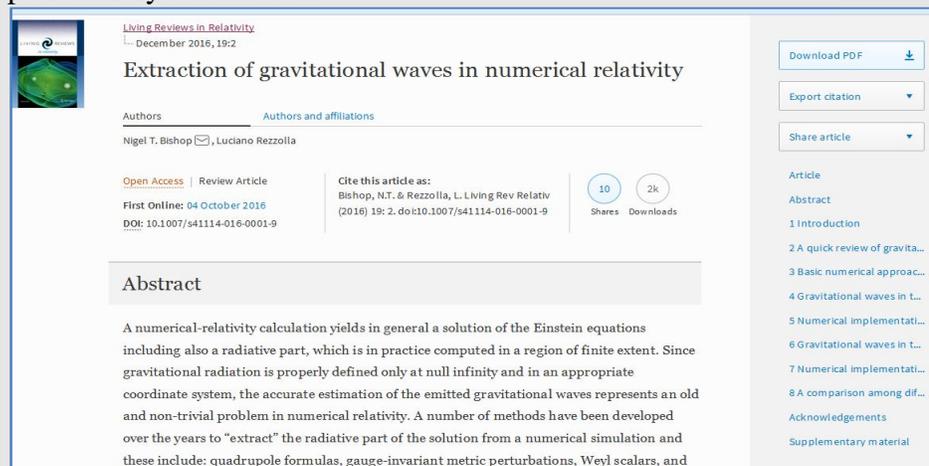
It was founded and published at the Max Planck Institute for Gravitational Physics from 1998-2015. After it was sold by Max Planck Society in June 2015, it is now published by the academic publisher Springer Science & Business Media.

## Scope and Coverage

Living Reviews in Relativity is a peer-reviewed open-access scientific journal publishing reviews on relativity in the areas of physics and astrophysics. Articles are solicited from leading authorities and are directed towards the scientific community at or above the graduate-student level. The articles in Living Reviews provide critical reviews of the current state of research in the fields they cover.

## Kind of Information

Living Reviews in Relativity is exclusively online journal, publishing freely available reviews of research in all areas of relativity. Review articles offers annotated insights into the key literature and describe other available resources. Living Reviews is unique in maintaining a suite of high-quality reviews, which are kept up-to-date by the authors.



The screenshot shows the article page for "Extraction of gravitational waves in numerical relativity" by Nigel T. Bishop and Luciano Rezzolla. The page includes a cover image, the title, authors, and affiliations. It also features a citation box with the citation text: "Bishop, N.T. & Rezzolla, L. Living Rev Relativ (2016) 19: 2. doi:10.1007/s41114-016-0001-9". The article is marked as "Open Access" and "Review Article". The first online date is "04 October 2016" and the DOI is "10.1007/s41114-016-0001-9". The abstract section is visible, starting with "A numerical-relativity calculation yields in general a solution of the Einstein equations including also a radiative part, which is in practice computed in a region of finite extent. Since gravitational radiation is properly defined only at null infinity and in an appropriate coordinate system, the accurate estimation of the emitted gravitational waves represents an old and non-trivial problem in numerical relativity. A number of methods have been developed over the years to "extract" the radiative part of the solution from a numerical simulation and these include: quadrupole formulas, gauge-invariant metric perturbations, Weyl scalars, and". The right sidebar contains a table of contents with 8 sections: 1 Introduction, 2 A quick review of gravita..., 3 Basic numerical approac..., 4 Gravitational waves in t..., 5 Numerical implementati..., 6 Gravitational waves in t..., 7 Numerical implementati..., 8 A comparison among dif... There are also buttons for "Download PDF", "Export citation", and "Share article".

After selecting a particular article from the journal, visitors can see the title, cover picture, authors, authors and affiliations, citation, review article, DOI number etc. All the review comes with various categories of information containing in content. Such as....

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Article Abstract

1 Introduction

2 A quick review of gravitational waves

3 Basic numerical approaches

4 Gravitational waves in the Cauchy-perturbative approach

5 Numerical implementations of the Cauchy-perturbative approach

6 Gravitational waves in the characteristic approach

7 Numerical implementations of the characteristic approach

8 A comparison among different methods

Acknowledgements

Supplementary material

Appendix 1: Notation

Appendix 2: Spin-weighted spherical harmonics and the  $\delta$  operator

Appendix 3: Computer codes and scripts

References  
Copyright information  
About this article

Visitors can download review articles in PDF format. Even citations can be export in .RIS, .ENW, .BIB format.

### ***Special Features***

- ❖ Links with journals like Classical and Quantum Gravitation, Relativity Theory Cosmology & Astrophysics and Astroparticles.
- ❖ Latest content is alerted to the users through RSS.

### ***Arrangement Pattern***

All the volumes & issues are arranged chronologically. In each issue review articles are arranged date of upload wise (chronologically).

The screenshot displays three main sections of the journal's interface. On the left, under 'All Volumes & Issues', there is a list of volumes from 13 to 19, each corresponding to a December issue. The middle section, 'In this issue (3 articles)', lists three review articles: 'Terrestrial Gravity Fluctuations' by Jan Harms, 'The Hubble Constant' by Neal Jackson, and 'Exploring New Physics Frontiers Through Numerical Relativity' by Vitor Cardoso, Leonardo Gualtieri, and Carlos Herdeiro. Each article has a 'Download PDF' and 'View Article' link. On the right, a box highlights 'Open Access | Review Article', 'First Online: 02 December 2015', and the DOI: 10.1007/lrr-2015-3.

### ***Remarks***

Living Review in Relativity is the part of the portal of Living Reviews. Its unique concept allows authors to regularly update their articles to incorporate the latest developments.

### ***Comparable Tools***

- Annual Reviews ( <http://www.annualreviews.org/> )
- Nature Reviews ( <http://www.nature.com/reviews/index.html> )
- Journal of Scientific Review ( <http://www.srbmag.org/index.php/srbmag> )
- Applied Physics Review ( <http://aip.scitation.org/journal/are> )

### ***Date of Access***

31<sup>st</sup> January, 2017.