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Highlights of 1999 and 2000

At the beginning of June 2000 the Editorial Board of *Classical and Quantum Gravity* nominated their personal highlights in the journal over the past year. We are delighted to offer these here as a taster of the full content of the journal.

This individual and eclectic selection is intended not as a list of the 'best' articles, but as an interesting and stimulating reading list. Articles were selected for many reasons; some contain outstanding research and breakthroughs while others are valuable reviews of the field. Some have an especially clear exposition and are beautifully presented; others are instructive containing results and tools useful to many readers. A few are controversial and have provoked discussion and further investigation.

On behalf of the Editorial Board I hope you enjoy reading these articles, including those outside your direct field of research. Further information on how to read, write for or subscribe to *Classical and Quantum Gravity* can be found on the [journal's home page](#) or you can e-mail us at cqg@ioppublishing.co.uk

Andrew Wray, Publisher

MILLENNIUM ISSUE - No. 12A December 1999 supplement

This special issue presented invited articles by some of those researchers who have made key contributions to our understanding of gravity in recent decades. The papers are intended both to set recent progress in context, but also to influence and stimulate new work in gravitational physics. The Editorial Board praised all the articles in the issue and it is only possible to recommend a starting point: the paper "[83 years of general relativity and cosmology: progress and problems](#)" by G F R Ellis, 16 A37 (1999)

TOPICAL REVIEWS

R1	Coalescing binary neutron stars <i>Frederic A Rasio and Stuart L Shapiro</i> 16 No. 6 (June 1999) Abstract References Full text: Acrobat PDF PostScript
R31	Self-similarity in general relativity <i>B J Carr and A A Coley</i> 16 No. 7 (July 1999) Abstract References Full text: Acrobat PDF PostScript
R73	On local and global aspects of the Cauchy problem in general relativity <i>S Klainerman and F Nicolò</i> 16 No. 8 (August 1999) Abstract References Full text: Acrobat PDF PostScript
R159	Quasinormal modes: the characteristic 'sound' of black holes and neutron stars <i>Hans-Peter Nollert</i> 16 No. 12 (December 1999) Abstract References Full text: Acrobat PDF PostScript

LETTERS TO THE EDITOR

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| L1 | Isolated horizons: a generalization of black hole mechanics
<i>Abhay Ashtekar, Christopher Beetle and Stephen Fairhurst</i> 16 No. 2 (February 1999)
Abstract References Full text: Acrobat PDF PostScript HTML |
| L9 | Scalar fields as dark matter in spiral galaxies
<i>F Siddhartha Guzmán and Tonatihu Matos</i> 17 No. 1 (7 January 2000)
Abstract References Full text: Acrobat PDF PostScript HTML |
| L17 | Asymptotically anti-de Sitter spacetimes: conserved quantities
<i>Abhay Ashtekar and Saurya Das</i> 17 No. 2 (21 January 2000)
Abstract References Full text: Acrobat PDF PostScript HTML |
| L31 | The second law of thermodynamics, TCP and Einstein causality in anti-de Sitter spacetime
<i>Detlev Buchholz, Martin Florig and Stephen J Summers</i> 17 No. 2 (21 January 2000)
Abstract References Full text: Acrobat PDF PostScript HTML |
| L39 | Separable brane cosmologies in heterotic M-theory
<i>James E Lidsey</i> 17 No. 2 (21 January 2000)
Abstract References Full text: Acrobat PDF PostScript HTML |

PAPERS

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|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 979 | Dissipative fluid dynamics in the 3 + 1 formalism
<i>Jochen Peitz and Stefan Appl</i> 16 No. 3 (March 1999)
Abstract References Full text: Acrobat PDF PostScript |
| 1255 | A note on the Penrose junction conditions
<i>Michael Kunzinger and Roland Steinbauer</i> 16 No. 4 (April 1999)
Abstract References Full text: Acrobat PDF PostScript |
| 1313 | Size of a hydrogen atom in the expanding universe
<i>W B Bonnor</i> 16 No. 4 (April 1999)
Abstract References Full text: Acrobat PDF PostScript |
| 1667 | Rotating perfect fluid sources of the NUT metric
<i>Michael Bradley, Gyula Fodor, László Á Gergely, Mattias Marklund and Zoltán Perjés</i> 16 No. 6 (June 1999)
Abstract References Full text: Acrobat PDF PostScript |
| 1677 | Some comments on gravitational entropy and the inverse mean curvature flow
<i>G W Gibbons</i> 16 No. 6 (June 1999)
Abstract References Full text: Acrobat PDF PostScript |
| 1705 | Dynamics of spatially homogeneous solutions of the Einstein-Vlasov equations which are locally rotationally symmetric
<i>A D Rendall and K P Tod</i> 16 No. 6 (June 1999) |