

CURRICULUM DI DONATO BINI

Dati Biografici

Nato a Sabaudia (LT) il 27 Novembre 1963.

Stato Civile: Coniugato. Figli: uno, Francesco.

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Curriculum

Maturità scientifica: presso il Liceo Statale “G. B. Grassi” di Latina, con voto 60/60.

Laurea in Fisica: 25 Maggio 1989, presso l’Università “La Sapienza” di Roma. Voto di laurea: 110/110 e lode. Titolo della tesi: *Sull’equazione di Ernst in Relatività Generale: formulazione hamiltoniana e problemi connessi alla definizione di energia nella collisione di onde gravitazionali*. Relatore della tesi: Prof. Valeria Ferrari.

Post-Laurea. Vincitore di due borse di ricerca del Consiglio Nazionale delle Ricerche (CNR) della durata di un anno ciascuna, nel 1990 (usufruita presso il Dipartimento di Matematica dell’Università “La Sapienza” di Roma) e nel 1991 (non usufruita, avendo nel frattempo ottenuto l’ammissione al Dottorato di Ricerca in Fisica presso l’Università “La Sapienza” di Roma).

Dottorato di Ricerca in Fisica: 17 Novembre 1995, presso l’Università “La Sapienza” di Roma. Titolo della tesi: *Splitting dello spazio - tempo e sue applicazioni in Relatività Generale*. Tutore: Prof. Remo Ruffini.

Post-Doc. Ricercatore CNR a contratto (Art. 23) dal 1995 al 1998 presso l’Istituto per Applicazioni della Matematica di Napoli. Ricercatore (III livello) CNR di ruolo dal 1998.

Posizione Attuale: Ricercatore (III livello) CNR di ruolo, in servizio presso l’Istituto per Applicazioni del Calcolo “M. Picone”, via del Policlinico, 137, I-00161, Roma.

Interessi Scientifici: Relatività Generale e sue Applicazioni (Splitting 3+1 dello spaziotempo; processo di misura e ruolo dell’osservatore in Relatività Generale; dinamica di particelle (senza struttura e con struttura vettoriale) e campi in background assegnati; onde gravitazionali; perturbazioni gravitazionali). Uso e sviluppo di sistemi per il calcolo simbolico (Maple).

Principali collaborazioni: ICRA (International Center for Relativistic Astrophysics, Roma); INFN (Istituto Nazionale di Fisica Nucleare: Padova, Firenze). Prof. R.T. Jantzen (Università di Villanova, PA, U.S.A.), Prof. R. Ruffini (Università di Roma “La Sapienza”), Prof. B. Mashhoon (Università di Columbia, Mi, U.S.A.) Prof. F. de Felice (Università di Padova). Prof. L. Lusanna (Istituto Nazionale di Fisica Nucleare, Firenze)

Attività di referee per varie riviste a redazione internazionale; reviewer per Mathematical Reviews.

Organizzazione di Convegni Internazionali di Relatività Generale (ICRA Network Meeting series).

Responsabile Italiano Progetto Bilaterale CNR Italia - Venezuela per gli anni 2002-2004. Titolo del progetto: *Costruzione di Modelli Numerici 3D per lo Studio della Magnetoidrodinamica in Problemi di Fisica Gravitazionale e Astrofisica*.

Pubblicazioni scientifiche

Le pubblicazioni su riviste con referee (RJ), su proceedings (Proc.)
o in libri (Book) sono indicate esplicitamente.

1. **(RJ) Bini D.**, Ferrari V., Ibañez J.,
Finite energy wave packets of gravitational radiation,
Il Nuovo Cimento vol. 103B, N. 1, 29-44, 1989.
2. **(RJ) Ferrarese G.**, Stazi L., Cattani C., **Bini D.**,
Kinematics of relativistic deformation and Thomas precession,
Il Nuovo Cimento vol. 105B, N. 10, 1131-1140, 1990.
3. **(RJ) Jantzen R.T.**, Carini P., **Bini D.**,
The many faces of Gravitoelectromagnetism,
Annals of Physics, vol. 215, 1-50, 1992.
E-print:gr-qc/0106043.
4. **(Book) Ferrarese G.**, **Bini D.**,
Riferimenti fluidi polari in Relatività Generale,
Ric. di Matematica vol. XLI - Supplemento, 159-172, Ed. Liguori, Napoli, 1992.
5. **(Proc.) Bini D.**, Carini P., Jantzen R.T.,
Gravitoelectromagnetism: applications to Rotating Minkowski, Gödel and Kerr spacetimes,
Atti del "The sixth Marcel Grossman Meeting on General Relativity", Kyoto, Giappone, 1991, (Pub. World Scientific Singapore, 1993, pag. 1622-1624).
6. **(Proc.) Jantzen R.T.**, Carini P., **Bini D.**,
Gravitoelectromagnetism: relativity of splitting formalisms,
Atti del "The sixth Marcel Grossman Meeting on General Relativity", Kyoto, Giappone, 1991, (Pub. World Scientific Singapore, 1993, pag. 135-137).
7. **(Proc.) Bini D.**, Carini P., Jantzen R.T.,
Applications of gravitoelectromagnetism to rotating spacetimes,
Atti del "The third Korean-Italian Symposium on Cosmology and Relativistic Astrophysics", Seoul, Korea, 1991.
J. Korean Phys. Soc., vol. 25, S190-S200, 1992.
8. **(Proc.) Jantzen R.T.**, Carini P., **Bini D.**,
Gravitoelectromagnetism: relativity of splitting formalisms,
Atti del "The third Korean-Italian Symposium on Cosmology and Relativistic Astrophysics", Seoul, Korea, 1991.
J. Korean Phys. Soc., vol. 25, S230-S240, 1992.
9. **(Proc.) Jantzen R.T.**, **Bini D.**, Carini P.,
Gravitoelectromagnetic analysis of Minkowski, Gödel and Kerr spacetimes,
Atti del "13th International Conference on General Relativity and Gravitation",
Abstracts of contributed papers (P.W. Lamberti and O.E. Ortiz Eds.), pag. 48, 1992.
10. **(Proc.) Ferrarese G.**, Stazi L., Cattani C., **Bini D.**,
Relativistic deformation effects of a Born rigid continuum,
Atti del "The first William Fairbank meeting on relativistic gravitational experiments in space", Università "La Sapienza", Roma, Settembre 1990.
Advanced series in Astrophysics and Cosmology, vol. 7, World Scientific Singapore, 1993.

11. **(RJ)** Ferrarese G., **Bini D.**, Gemelli G.,
Connessioni adattate ad un Riferimento in Relatività Generale,
Rend. Mat. Acc. Lincei, s. 9, vol. 5, 89-102, 1994.
12. **(RJ)** **Bini D.**, Carini P., Jantzen R.T., Wilkins D.,
Thomas Precession in Post-Newtonian Gravitoelectromagnetism,
Physical Review D, vol. 49-6, 2820-2827, 1994.
13. **(RJ)** **Bini D.**, Ferrari V.,
Scattering of Dirac particles by gravitational plane waves,
International Journal of Modern Physics D, vol. 4, 291-304, 1995.
14. **(RJ)** **Bini D.**, Carini P., Jantzen R.T.,
Relative Observer kinematics in General Relativity,
Classical and Quantum Gravity, vol. 12, 2549 - 2563, 1995.
15. **(Tesi PHD)** **Bini D.**,
Splitting dello spazio-tempo e sue applicazioni in Relatività Generale,
Tesi di Dottorato di Ricerca in Fisica presso l'Università "La Sapienza" di Roma, 1995.
16. **(RJ)** Ferrarese G., **Bini D.**, Stazi L., Gemelli G., Ricci M.,
Dynamics of a relativistic spinning particle,
Il Nuovo Cimento, vol. 111B, N. 2, 217-225, 1996.
17. **(Proc.)** Jantzen R.T., **Bini D.**, Carini P.,
Gravitoelectromagnetism: just a big word ?,
Atti del "The seventh Marcel Grossman Meeting on General Relativity", Stanford, U.S.A., 1994, Eds. R.T. Jantzen and G.M. Keiser, (Pub. World Scientific Singapore, 1996, pag. 133-152).
18. **(Proc.)** Carini P., **Bini D.**, Jantzen R.T.,
Gravitoelectromagnetism and inertial forces in General Relativity,
Atti del "The seventh Marcel Grossman Meeting on General Relativity", Stanford, U.S.A., 1994, Eds. R.T. Jantzen and G.M. Keiser, (Pub. World Scientific Singapore, 1996, pag. 519-521).
19. **(Proc.)** **Bini D.**, Carini P., Jantzen R.T.,
Gravitoelectromagnetism: further applications,
Atti del "The seventh Marcel Grossman Meeting on General Relativity", Stanford, U.S.A., 1994, Eds. R.T. Jantzen and G.M. Keiser, (Pub. World Scientific Singapore, 1996, pag. 522-524).
20. **(RJ)** **Bini D.**, Carini P., Jantzen R.T.,
The intrinsic derivative and centrifugal forces in general relativity: I. Theoretical Foundations,
International Journal of Modern Physics D, vol. 6, No. 1, 1-38, 1997.
21. **(RJ)** **Bini D.**, Carini P., Jantzen R.T.,
The intrinsic derivative and centrifugal forces in general relativity: II. Applications to circular orbits in some familiar stationary axisymmetric spacetimes,
International Journal of Modern Physics D, vol. 6, No. 2, 143-198, 1997.
22. **(RJ)** **Bini D.**, Gemelli G.,
Scattering of spinning test particles by gravitational plane waves,
Il Nuovo Cimento, vol. 112B, N. 2-3 , 165-171, 1997.
Atti del "The fourth Italian - Korean meeting on Relativistic Astrophysics", Roma, Luglio 1995.
23. **(RJ)** **Bini D.**, Ruffini R., Spoliti G.,
Gravitoelectromagnetism in rotating black holes spacetimes,
Il Nuovo Cimento, vol. 112B, N. 2-3 , 173-180, 1997.
Atti del "The fourth Italian - Korean meeting on Relativistic Astrophysics", Roma, Luglio 1995,
24. **(Proc.)** **Bini D.**, Jantzen R.T., Merloni A.,
Circular orbits in the Kerr spacetime: centrifugal forces and anti-Newtonian behaviour,
Atti del "The eighth Marcel Grossman Meeting on General Relativity", Gerusalemme, Israele, 1997, Ed. T. Piran, (Pub. World Scientific Singapore, 1998, pag. 407-409).

25. **(Proc.) Bini D.**, Gemelli G., Ruffini R.,
Gravitoelectromagnetism and motion of spinning test particles in general relativity,
Atti del “The eighth Marcel Grossman Meeting on General Relativity”, Gerusalemme, Israele, 1997, Ed. T. Piran, (Pub. World Scientific Singapore, 1998, pag. 404-406).
26. **(Proc.) Bini D.**, Carini P., Jantzen R.T.,
The inertial forces/ Test particle motion game,
Atti del “The eighth Marcel Grossman Meeting on General Relativity”, Gerusalemme, Israele, 1997, Ed. T. Piran, (Pub. World Scientific Singapore, 1998, pag. 376-397).
E-print:gr-qc/9710051.
27. **(RJ) Bini D.**, Jantzen R.T., Merloni A.,
Adapted frames for spacetime splitting with an additional observer family,
Il Nuovo Cimento B, vol. 113, N. 5, 611-620, 1998.
28. **(Proc.) Bini D.**, de Felice F., Jantzen R.T.,
Centripetal acceleration and centrifugal force in general relativity,
Atti del “The first ICRA Network workshop and the third William Fairbank meeting”, Roma and Pescara, Giugno 1998. Nonlinear Gravitodynamics: The Lense-Thirring Effect, Eds. R. Ruffini and C. Sigismondi, World Scientific Singapore, pag. 119-127, 2003.
29. **(Proc.) Bini D.**, Jantzen R.T., Merloni A.,
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Atti del “The first ICRA Network workshop ”, Roma and Pescara, Giugno 1998. Nonlinear Gravitodynamics: The Lense-Thirring Effect, Eds. R. Ruffini and C. Sigismondi, World Scientific Singapore, pag. 95-118, 2003.
30. **(Proc.) Bini D.**, Gemelli G., Ruffini R.,
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Atti del “The first ICRA Network workshop and the third William Fairbank meeting”, Roma and Pescara, Giugno 1998. Nonlinear Gravitodynamics: The Lense-Thirring Effect, Eds. R. Ruffini and C. Sigismondi, World Scientific Singapore, pag. 84-91, 2003.
31. **(Proc.) Bini D.**, Gemelli G., Ruffini R.,
Energy first integral for spinning particles in the Schwarzschild background,
Atti del “The first ICRA Network workshop and the third William Fairbank meeting”, Roma and Pescara, Giugno 1998. Nonlinear Gravitodynamics: The Lense-Thirring Effect, Eds. R. Ruffini and C. Sigismondi, World Scientific Singapore, pag. 81-83, 2003.
32. **(RJ) Merloni A.**, Stella L., Vietri M., **Bini D.**,
On gravitomagnetic precession around black holes,
Monthly Notices of the Royal Astronomical Society, vol. 304, 155-159, 1999.
33. **(RJ) Bini D.**, Jantzen R.T., Merloni A.,
Geometric interpretation of the Frenet-Serret frame description of circular orbits in stationary axisymmetric spacetimes,
Classical and Quantum Gravity, vol. 16, 1333-1348, 1999.
34. **(RJ) Bini D.**, de Felice F., Jantzen R.T.,
Absolute and relative Frenet-Serret frames and Fermi-Walker transport,
Classical and Quantum Gravity, vol. 16, 2105-2124, 1999.
35. **(RJ) Bini D.**, Gemelli G., Ruffini R.,
Spinning test particles in general relativity: nongeodesic motion in the Reissner-Nordström spacetime,
Physical Review D, vol. 61, 064013, 2000.
36. **(RJ) Ali G.**, **Bini D.**, Rionero S.,
Global existence and Relaxation Limit for Smooth Solutions to the Euler-Poisson Model for Semiconductors,
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37. **(RJ) Bini D.**, Jantzen R.T.,
Circular orbits in Kerr spacetime: equatorial plane embedding diagrams,
Classical and Quantum Gravity, vol. 17, 1-11, 2000.

38. **(RJ) Bini D.**, de Felice F.,
Gyroscopes and gravitational waves,
Classical and Quantum Gravity, vol. 17, 4627-4635, 2000.
39. **(RJ) Bini D.**, Jantzen R.T.,
Gravitoelectromagnetism: a tool for observer-dependent interpretation of spacetime physics,
Il Nuovo Cimento, vol. 115B, n. 070809, Luglio-Settembre 2000, pag. 713-723.
Atti del “The third ICRA Network workshop and the third William Fairbank meeting”, Roma and Pescara,
Giugno 1999, Series Ed. R. Ruffini, World Scientific.
40. **(Proc.) Bini D.**, Jantzen R.T.,
Gravitoelectromagnetism and the concept of rotation in black hole spacetime,
Atti del “The ninth Marcel Grossman Meeting on General Relativity”, Rome, Italy, 2000, Eds. V. Gurzadyan,
R.T. Jantzen, R. Ruffini, (Pub. World Scientific Singapore, 2003, pag. 815-817).
41. **(Proc.) Germani C., Bini D.**, Jantzen R.T.,
A classical interpretation of Maxwell’s equations in curved spacetime,
Atti del “The ninth Marcel Grossman Meeting on General Relativity”, Rome, Italy, 2000, Eds. V. Gurzadyan,
R.T. Jantzen, R. Ruffini, (Pub. World Scientific Singapore, 2003, pag. 927-929).
E-print: gr-qc/0103068
42. **(Proc.) Bini D.**, Jantzen R.T., Miniutti G.,
The Cotton-York and Simon tensor in stationary spacetimes:I,
Atti del “The ninth Marcel Grossman Meeting on General Relativity”, Rome, Italy, 2000, Eds. V. Gurzadyan,
R.T. Jantzen, R. Ruffini, (Pub. World Scientific Singapore, 2003, pag. 818-819).
43. **(Proc.) Bini D.**, Jantzen R.T., Miniutti G.,
The Cotton-York and Simon tensor in stationary spacetimes:II,
Atti del “The ninth Marcel Grossman Meeting on General Relativity”, Rome, Italy, 2000, Eds. V. Gurzadyan,
R.T. Jantzen, R. Ruffini, World Scientific Singapore, 2003.
44. **(Proc.) Bini D.**, Gemelli G., Ruffini R.,
The role of supplementary conditions for spinning test particles in General Relativity:I,
Atti del “The ninth Marcel Grossman Meeting on General Relativity”, Rome, Italy, 2000, Eds. V. Gurzadyan,
R.T. Jantzen, R. Ruffini, (Pub. World Scientific Singapore, 2003, pag. 949-951).
45. **(Proc.) Bini D.**, Gemelli G., Ruffini R.,
The role of supplementary conditions for spinning test particles in General Relativity:II,
Atti del “The ninth Marcel Grossman Meeting on General Relativity”, Rome, Italy, 2000, Eds. V. Gurzadyan,
R.T. Jantzen, R. Ruffini, World Scientific Singapore, 2003.
46. **(Proc.) Bini D.**, Cherubini C., Ruffini R., Jantzen R.T.,
Perturbations in Black Hole Spacetime: a new approach,
Atti del “The ninth Marcel Grossman Meeting on General Relativity”, Rome, Italy, 2000, Eds. V. Gurzadyan,
R.T. Jantzen, R. Ruffini, (Pub. World Scientific Singapore, 2003, pag. 1567-1569).
47. **(Book) Bini D.**, de Felice F.,
Gyroscopes and Gravitational Waves,
in *Gravitational Waves*, Ed. by I. Ciufolini, V. Gorini, U. Moschella, P. Fre, IOP, Institute of Publishing Bristol
and Philadelphia, 2000. Cap. 15, pag 268-279.
48. **(Proc.) Bini D.**, Jantzen R.T.,
Spacetime Splitting Techniques and Gravitoelectromagnetism in General Relativity,
In Proceedings of the XXIII Spanish Relativity Meeting on Reference Frames and Gravitomagnetism, Valladolid,
Spain, 6-9 September 2000 (Pag. 1-12). Editors J.F. Pascual-Snchez, L. Flora, A. San Miguel and F. Vicente
World Scientific Singapore, 2001 (ISBN 981-02-4631-5).
BD invited speaker.
49. **(Proc.) Bini D.**, Jantzen R.T.,
Gravitoelectromagnetism: Applications to Black Hole Circular Orbits,
In Proceedings of the XXIII Spanish Relativity Meeting on Reference Frames and Gravitomagnetism, Valladolid,
Spain, 6-9 September 2000 (Pag. 13-24). Editors J.F. Pascual-Snchez, L. Flora, A. San Miguel and F. Vicente

World Scientific Singapore, 2001 (ISBN 981-02-4631-5).
BD invited speaker.

50. **(Proc.) Bini D.**, Jantzen R.T.,
A List of References on Spacetime Splitting and Gravitoelectromagnetism,
 In Proceedings of the XXIII Spanish Relativity Meeting on Reference Frames and Gravitomagnetism, Valladolid, Spain, 6-9 September 2000 (Pag. 199-224). Editors J.F. Pascual-Sanchez, L. Flora, A. San Miguel and F. Vicente
 World Scientific Singapore, 2001 (ISBN 981-02-4631-5).
BD invited speaker.
 E-print:gr-qc/0010070
51. **(RJ) Bini D.**, Germani C., Jantzen R.T.,
Gravitoelectromagnetism and the integral formulation of Maxwell's equations,
 International Journal of Modern Physics D, vol. 10, N. 5, 633-647, 2001.
52. **(RJ) Bini D.**, Jantzen R.T., Mashhoon B.,
Gravitomagnetism and Relative Observer Clock Effect,
 Classical and Quantum Gravity, vol. 18, 653-670, 2001.
 E-print:gr-qc/0012065
53. **(RJ) Sorge F., Bini D.**, de Felice F.,
Gravitational waves, Gyroscopes and Frame Dragging,
 Classical and Quantum Gravity, vol. 18, 2945-2958, 2001.
54. **(RJ) Bini D.**, Jantzen R.T., Miniutti G.,
The Cotton, Simon-Mars and Cotton-York Tensors in Stationary Spacetimes,
 Classical and Quantum Gravity, vol. 18, 1-13, 2001.
 E-print:gr-qc/0110059
55. **(RJ) Gemelli G., Bini D.**, de Felice F.,
Gravitoelectromagnetism and algebraic properties of the Weyl tensor,
 International Journal of Modern Physics D, vol. 11, 223, 2002.
56. **(RJ) Bini D.**, Jantzen R.T., Mashhoon B.,
Circular Holonomy and Clock Effects in Stationary Axisymmetric Spacetimes,
 Classical and Quantum Gravity, vol. 19, 17-37, 2002.
57. **(RJ) Bini D.**, Cherubini C., Jantzen R.T., Ruffini R.,
De Rham Wave Equation for the Gravitational and Electromagnetic Fields in Vacuum,
 Progress of theoretical Physics, vol. 107, 1-26, 2002.
58. **(RJ) Cherubini C., Bini D.**, Capozziello S., Ruffini R.,
Second order scalar invariants of the Riemann Tensor: Applications to black hole spacetimes,
 International Journal of Modern Physics D, vol. 11, 827-841, 2002.
59. **(RJ) Bini D.**, Cherubini C, Jantzen R.T.,
On the interaction of massless fields with a gravitomagnetic monopole,
 Classical and Quantum Gravity, vol 19, 5265-5272, 2002.
60. **(RJ) Bini D.**, Jantzen R.T., Miniutti G.,
Electromagnetic-like boost transformations of Weyl and minimal super-energy observers in black hole spacetimes,
 International Journal of Modern Physics D, vol. 11, 1439-1450, 2002.
61. **(RJ) Bini D.**, Cherubini C., Jantzen R.T.,
Circular holonomy in the Taub-NUT spacetime,
 Classical and Quantum Gravity, vol. 19, 5481-5488, 2002.
 E-print: gr-qc/0210003
62. **(RJ) Bini D.**, Cherubini C, Jantzen R.T., Mashhoon B.,
Gravitomagnetism in the Kerr-Newman-Taub-NUT spacetime,
 Classical and Quantum Gravity, vol. 20, 457-468, 2003.

63. **(RJ) Bini D.**, Cruciani G., Lunari A.,
Test particle motion in a gravitational plane wave collision background,
 Classical and Quantum Gravity, vol. 20, 341-350, 2003.
 E-print: gr-qc/0212008
64. **(RJ) Bini D.**, Cherubini C., Jantzen R.T., Mashhoon B.,
Massless fields and gravitomagnetism in the Kerr-Taub-NUT spacetime,
 Phys. Rev. D, vol. 67, 084013, 2003.
65. **(Book) Bini D.**, Jantzen R.T.,
Special Observers in the Kerr spacetime,
 In "Advances in General Relativity and Cosmology", Ed. G. Ferrarese, Pitagora, 2003.
66. **(Book) Bini D.**, Jantzen R.T.,
Gravitomagnetic clock effects in black hole spacetime,
 In "General Relativity, Cosmology and Gravitational Lensing", Napoli Series on Physics and Astrophysics, pp. 17-28 Eds. G. Marmo, C. Rubano, P. Scudellaro, Bibliopolis, 2002.
67. **(Book) Bini D.**, Jantzen R.T.,
Circular Holonomy, Clock Effects and Gravitoelectromagnetism: Still Going Around in Circles After All These Years,
 to appear in the Proceedings of the 9th ICRA Network Workshop on Fermi and Astrophysics (2001), Eds. R. Ruffini and C. Sigismondi, World Scientific, 2002.
 E-print: gr-qc/0202085
68. **(RJ) Bini D.**, Crosta M. T., de Felice F.,
Orbiting frames and satellite attitudes in relativistic astrometry,
 Classical and Quantum Gravity, vol. 20, 4695-4706, 2003.
69. **(RJ) Bini D.**, de Felice F.,
Ray tracing in relativistic astrometry: the boundary value problem,
 Classical and Quantum Gravity, vol. 20, 2251-2259, 2003.
 Articolo che ha ricevuto la "IOP select" nel dicembre 2003: (IOP select come definito dal sito web di Institute of Physics (www.iop.org): "a FREE service from IOP Journals comprising articles chosen by our Editors for their novelty, significance and potential impact on future research. Updated weekly, IOP Select reflects both the breadth and international significance of papers published in our prestigious peer reviewed journals. IOP Select provides additional visibility for our authors".)
70. **(RJ) Bini D.**, Cherubini C., De Mattia M., Jantzen R.T.,
Equatorial Plane Circular Orbits in the Taub-NUT Spacetime,
 General Relativity and Gravitation, vol. 35, 2249-2260, 2003.
71. **(RJ) Bini D.**, Cherubini C., Jantzen R.T., Ruffini R.,
de Rham wave equation for tensor valued p-forms,
 International Journal of Modern Physics D, vol. 12, 1363-1384, 2003.
72. **(RJ) Bini D.**, Cherubini C., Cruciani G., Lunari A.,
Neutrino current in a gravitational plane wave collision background,
 International Journal of Modern Physics D, vol. 12, 1983-2000 2003.
73. **(RJ) Punsly B., Bini D.**,
 The origins of causality violations in force-free simulations of black hole magnetospheres,
 APJL, vol. 601, L135-L138, 2004.
74. **(RJ) Bini D.**,
 On the geometrization of inertial forces in relativity,
 Il Nuovo Cimento, vol. 118B, N. 10-12, Ottobre-Dicembre 2003, pag. 1055-1061.
 Atti del "The Xth ICRA Network workshop *Black holes, Gravitational waves and Cosmology*", Roma and Pescara, 2002.

75. **(Book) Bini D.**, Jantzen R.T.,
Inertial forces: the special relativistic assessment,
 in "Relativity in Rotating Frames (Relativistic physics in rotating reference frames) Ed. by G. Rizzi and M.L. Ruggiero Kluwer Academic Press, Fundamental Theories of Physics, vol. 135, 221-239, 2004.
76. **(RJ) Bini D.**, Cherubini C., Jantzen R.T., Miniutti G.,
The Simon and SimonMars tensors for stationary EinsteinMaxwell fields,
 Classical and Quantum Gravity, vol. 21, 1987-1998, 2004.
77. **(Proc.) Bini D.** *Taub-NUT spinless particles and Schwarzschild spinning particles*,
 Proceedings of the 8th Italian-Korean Meeting, Pescara 2003.
78. **(Proc.) Bini D.**, Jantzen R.T.,
Inertial Forces in relativity,
 Proceedings of the tenth M. Grossmann Meeting Rio de Janeiro, Brasil, 2003.
79. **(Proc.)** Cherubini C., **Bini D.**, Jantzen R.T., Mashhoon B.,
Perturbations and gravitomagnetism in the Kerr-Taub-NUT spacetime,
 Proceedings of the tenth M. Grossmann Meeting Rio de Janeiro, Brasil, 2003.
80. **(RJ) Bini D.**, Geralico A.,
Superposition of Weyl solutions: Circular orbits,
 International Journal of Modern Physics D, vol. 13, 2004 (to appear).
81. **(RJ) Bini D.**, Cherubini C.
Algebraically special frequencies of NUT black holes,
 submitted to Classical and Quantum Gravity 2004.
82. **(RJ) Bini D.**, Cherubini C., Mashhoon B.,
Vacuum C-Metric and the Gravitational Stark Effect,
 Phys. Rev. D, vol. 70 2004 (to appear).
 E-print: gr-qc/0401071
83. **(RJ) Cherubini C.**, **Bini D.**, Bruni M., Perjes Z.,
Petrov classification of perturbed spacetimes: the Kasner example,
 submitted to Classical and Quantum Gravity 2004.
 E-print: gr-qc/0404075
84. **(RJ) Bini D.**, Cherubini C., Mashhoon B.,
Spin, acceleration and Gravity,
 Classical and Quantum Gravity, vol. 21, 2004 (to appear).
 E-print: gr-qc/0406061
85. **(RJ) Bini D.**, Cherubini C., Cruciani G., Jantzen R.T.,
Geometric transport along circular orbits in stationary axisymmetric spacetimes,
 submitted to International Journal of Modern Physics D 2004.
 E-print: gr-qc/0407004

Roma, 7 luglio 2004

Donato Bini