

List of publications of Jiří Bičák

A. Original publications

- [1] JB, J.Katz and D. Lynden-Bell, *Cosmological perturbation theory, instantaneous gauges and local inertial frames*, Phys. Rev. D (2007), submitted
- [2] D. Lynden-Bell, J. Katz and JB, *Energy and angular momentum densities of stationary gravity fields*, Phys. Rev. D (2007), accepted
- [3] JB, V. Karas and T. Ledvinka, *Black holes and magnetic fields*, to appear in the proceedings of "Black Holes: from Stars to Galaxies", IAU Symposium No. 238 (21-25 August 2006, Prague), eds. V. Karas G. Matt, Cambridge University Press
- [4] J. Katz, D. Lynden-Bell and JB, *Gravitational energy in stationary spacetimes*, Class. Quantum Grav. **23** (2006) 7111-7128
- [5] JB and D. Kubizňák, *Ultrarelativistic sources in nonlinear electrodynamics*, Phys. Lett. **B636** (2006) 142-146
- [6] JB, *Einstein equations: exact solutions*, in *Encyclopedia of Mathematical Physics*, eds. J.-P. Francoise, G. Naber and T. S. Tsun, Elsevier, 2006, volume 2, p. 165-173
- [7] JB and P. Krtouš, *Fields of accelerated sources: Born in de Sitter*, J. Math. Phys. **46** (2005) 102504 (60 pages)
- [8] JB and J. Katz, *On the uniqueness of harmonic coordinates*, Czech. J. Phys. **55** (2005) 105-118
- [9] JB, T. Ledvinka, B.G. Schmidt and M. Žofka, *Static fluid cylinders and their fields: global solutions*, Class. Quantum Grav. **21** (2004) 1583-1608
- [10] JB, D. Lynden-Bell and J. Katz, *Toroidal perturbations of Friedmann-Robertson-Walker universes*, Phys. Rev. D **69** (2004) 064012 (13 pages)
- [11] JB, D. Lynden-Bell and J. Katz, *Do rotations beyond the cosmological horizon affect the local inertial frame?*, Phys. Rev. D **69** (2004) 064011 (12 pages)
- [12] I. Kouletsis, P. Hájíček and JB, *Gauge-invariant Hamiltonian dynamics of cylindrical gravitational waves*, Phys. Rev. D **68** (2003) 104013 (16 pages)
- [13] JB and P. Hájíček, *Canonical theory of spherically symmetric spacetimes with cross-streaming null dusts*, Phys. Rev. D **68** (2003) 104016 (15 pages)
- [14] P. Krtouš, J. Podolský and JB, *Gravitational and electromagnetic fields near a de Sitter-like infinity*, Phys. Rev. Lett. **91** (2003) 061101 (4 pages)

- [15] JB and P. Krtouš, *Radiative fields in spacetimes with Minkowski and de Sitter asymptotics*, in *Recent Developments in Gravity*, eds. K.D. Kokkotas, N. Stergioulas, World Scientific, Singapore (2003), 3-25
- [16] JB and M. Žofka, *Notes on static cylindrical shells*, *Class. Quantum Grav.* **19** (2002) 3653-3664
- [17] JB and P. Krtouš, *The fields of uniformly accelerated charges in de Sitter spacetime*, *Phys. Rev. Lett.* **88** (2002) 211101 (4 pages)
- [18] JB, *Exact solutions and their interpretation* (report of the chair of the A.1 workshop), in *16th Int. Conf. on Gen. Rel. and Grav.* (Durban, 2001), eds. N.T. Bishop and S.D. Maharaj, World Scientific, Singapore (2002), 337-357
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- [22] A. Pravdová and JB, *Axisymmetric electrovacuum spacetimes with an additional Killing vector*, in *Proc. of the 9th M. Grossmann Meeting on Gen. Rel.*, eds. V.G. Gurzadyan, R.T. Jantzen and R. Ruffini, World Scientific, Singapore (2001), 942-944
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B. Conference abstracts

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D. Review and pedagogical publications

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- [2] JB, *Zářivé prostoročasy* (Radiative spacetimes - in Czech), Čs. čas. fyz. **A50** (2000) 249-251
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- [4] JB, *Črta k Machovu principu* (Sketch on Mach's principle - in Czech), Čs. čas. fyz. **A48** (1998) 347-348
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- [18] JB, *Záření černého tělesa z raných stádií ve vývoji vesmíru* (Blackbody radiation from the early stages of the universe - in Czech), *Čs. čas. fyz.* **A18** (1968) 725-727

E. Miscellanea

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- [2] Articles and interviews on science in Czech journals and newspapers, published mostly after 1990

- [3] Articles on encounters with physicists (e.g. with S. Chandrasekhar, E.M. Lifshitz, K.S. Thorne), interviews on science and related issues (with, e.g., W.B. Bonnor, R. Penrose, A. Trautman, V. Votruba, J.A. Wheeler), and reports on international conferences, published (in Czech) in Čs. čas. fyz. A in the years 1969-89