

Publications

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Research Papers

1. Bekenstein JD, Krieger, J. (1969) Stark Effect in Hydrogenic Atoms *Phys. Rev.* **188**: 130-139.
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9. Bekenstein JD. (1973) Black Holes and Entropy. *Phys. Rev.* **D7**: 2333-2346.
10. Bekenstein JD. (1973) Gravitational Radiation Recoil and Runaway Black Holes. *Astrophys. J.* **183**: 657-664.
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19. Bekenstein JD. (1976) Supernovae in Binaries and the Possible Collapsed Nature of the Companion of HD 108. *Astrophys. J.* **210**: 544-548.
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21. Bekenstein JD. (1977) Are Particle Rest Masses Variable?: Theory and Constraints from Solar System Experiments. *Phys. Rev. D***15**: 1458-1468.
22. Bekenstein JD, Oron, E. (1978) New Conservation Laws in General Relativistic Magnetohydrodynamics. *Phys. Rev. D***18**: 1809-1819.
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36. Bekenstein JD. (1984) Entropy Content and Information Flow in Systems with Limited Energy. *Phys. Rev. D***30**: 1669-1679.
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44. Bekenstein JD. (1989) Is the Cosmological Singularity Thermodynamically Consistent ? *International J. of Theoretical Physics* **28**: 967-981.
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73. Bekenstein JD, Magueijo, J. (2006) Modified Newtonian Dynamics Habitats

Within the Solar System. *Phys. Rev.* **D73**: 103513.

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75. Bekenstein JD, Sagi E. (2008) Black Holes in the TeVeS Theory of Gravity and their Thermodynamics. *Phys. Rev.* **D77**: 024010.

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Invited reviews

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3. Bekenstein JD. (1986) The Fine Structure Constant: From Eddington's Time to Our Own. In: Ullmann-Margalit E. (ed.), *The Prism of Science*. Reidel, Dordrecht, pp. 209-224.

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11. Bekenstein JD. (2003) Information in the Holographic Universe. *Scientific American* **289**(2): pp. 58-65.
12. Bekenstein JD. (2003) Preparing the State of a Black Hole. In: Salim JM, Bergliaffa SEP, Oliveira LA, De Lorenci VA, (eds.), *Inquiring the Universe*. Frontier Group, pp. 17-32.
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15. Bekenstein JD, Sanders RH. (2006) A Primer to Relativistic MOND Theory. In: Mamon G, Combes F, Deffayet C, Fort B, (eds.), *Mass Profiles and Cosmological Structures*. EAS Publication Series **20**, EDP Sciences, Les Ulis, pp. 225-230.
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Invited papers in conference proceedings

1. Bekenstein JD. (1981) Gravitation, the Quantum and Statistical Physics. In: Y. Ne'eman Y. (ed.) *To Fulfill a Vision: Jerusalem Einstein Centennial Symposium on Gauge Theories and Unification*. Addison Wesley, Cambridge, Mass, pp. 42-62.
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Papers reprinted in collections

1. Bekenstein JD. (1980) Black Holes and the Second Law. Reprinted from *Lettere al Nuovo Cimento* In: Sato H, and Tomita K. (eds.), *Gravitational Collapse and Black Holes*. Physics Society of Japan, Tokyo. pp. 737-740.
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Scientific American In: *Scientific American, The Frontiers of Physics* **15**(3): pp. 74-81.

8. Bekenstein JD. (2007) Information in the Holographic Universe. Reprinted from *Scientific American* In: *Scientific American Reports* **17**(1): pp. 66-73.

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Books

1. Bekenstein JD. (2001) *Buchi neri, Comunicazione, Energia*. Di Renzo Editore, Rome.

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Citation classics

1. Bekenstein JD. (1973) Black Holes and Entropy. *Phys. Rev.* **D7**: 2333.

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Commentaries

1. Bekenstein JD. (1979) Astronomical Consequences and Tests of Relativistic Theories of Variable Rest Masses. *Comm. Astrophys.* **8**: 89.

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5. Bekenstein JD. (2013) What's Next - Discard Relativity. *New Scientist* **217**: 42.

Contributions on-line

1. Bekenstein JD. (2008) Bekenstein bound. *Scholarpedia* **3** (10): 7374.
2. Bekenstein JD. (2008) Bekenstein-Hawking entropy. *Scholarpedia* **3** (10): 7375.
3. Bekenstein JD. (2004) Entropy/ Information Bounds and Gravitation. Lecture at *School and Workshop on Quantum Entanglement, Decoherence, Information, and Geometrical Phases in Complex Systems — Center for Theoretical Physics, Trieste*. November 1-12.
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Website

<http://www.phys.huji.ac.il/~bekenste/>

Publications in Hebrew

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