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1. [arXiv:1303.2597](#) [pdf]
Incidence of low-density meteoroids of the Polonnaruwa type
[N. C. Wickramasinghe](#), [J. Wallis](#), [D.H. Wallis](#), [M.K. Wallis](#), [N. Miyake](#), [S.G. Coulson](#), [Carl H. Gibson](#), [J.T. Wickramasinghe](#), [A. Samaranayake](#), [K. Wickramaratne](#), [Richard B. Hoover](#)
Comments: 8 pages, 5 figures
Journal-ref: Journal of Cosmology, Vol.22 (1), March 2013
Subjects: General Physics (physics.gen-ph); Earth and Planetary Astrophysics (astro-ph.EP)
2. [arXiv:1212.2962](#) [pdf, other]
The Mass Function of Primordial Rogue Planet MACHOs in quasar nanolensing
[Rudolph E. Schild](#), [Theo M. Nieuwenhuizen](#), [Carl H. Gibson](#)
Comments: 12 pages, 1 figure
Journal-ref: Physica Scripta T 151 (2012) 014082
Subjects: Cosmology and Nongalactic Astrophysics (astro-ph.CO)
3. [arXiv:1210.1103](#) [pdf, other]
Why don't clumps of cirrus dust gravitationally collapse?
[Rudolph E. Schild](#), [Carl H. Gibson](#), [Theo M. Nieuwenhuizen](#), [N. Chandra Wickramasinghe](#)
Comments: 8 pages, 2 figures, Conference FQMT'11
Subjects: Cosmology and Nongalactic Astrophysics (astro-ph.CO)
4. [arXiv:1203.5819](#) [pdf, ps, other]
What is turbulence, what is fossil turbulence, and which ways do they cascade?
[Carl H. Gibson](#) (University of California San Diego, La Jolla CA)
Comments: 8 pages, 4 figures, submitted to Journal of Fluid Mechanics
Subjects: Fluid Dynamics (physics.flu-dyn); Cosmology and Nongalactic Astrophysics (astro-ph.CO)
5. [arXiv:1112.3630](#) [pdf]
Primordial Planets Explain Interstellar Dust, the Formation of Life; and Falsify Dark Energy
[Carl H. Gibson](#) (University of California at San Diego), [N. Chandra Wickramasinghe](#) (Cardiff University and Buckingham University, UK), [Rudolph E. Schild](#) (Harvard University)
Comments: 22 pages, 16 figures, Proceedings, International Conference on Interstellar Dust, Molecules and Chemistry (IDMC 2011), November 22-25, Pune, Maharashtra, India, Journal of Cosmology, Volume 16, 2011 (accepted)
Subjects: Cosmology and Nongalactic Astrophysics (astro-ph.CO)
6. [arXiv:1112.2758](#) [pdf]
Is Dark Energy Falsifiable?
[Carl H. Gibson](#) (University of California at San Diego), [Rudolph E. Schild](#) (Harvard University)
Comments: 13 pages, 6 figures, for Volume 7 of the Journal of Cosmology
Subjects: Cosmology and Nongalactic Astrophysics (astro-ph.CO)
7. [arXiv:1109.1262](#) [pdf]
The Biological Big Bang: The First Oceans of Primordial Planets at 2-8 Million Years Explain Hoyle/Wickramasinghe Cometary Panspermia
[Carl H. Gibson](#) (University of California at San Diego)
Comments: 19 pages 15 figures SPIE Conference on Astrobiology 8152 Aug. 25, 2011, invited paper 8152-37
Subjects: Cosmology and Nongalactic Astrophysics (astro-ph.CO)

8. [arXiv:1105.1539](#) [pdf]
Turbulent formation of protogalaxies at the plasma to gas transition
[Rudolph E. Schild](#) (Harvard Univ.), [Carl H. Gibson](#) (Univ. Calif. at San Diego)
Comments: 12 pages 4 figures for the Journal of Magnetohydrodynamics
Subjects: Cosmology and Nongalactic Astrophysics (astro-ph.CO)
9. [arXiv:1102.1183](#) [pdf]
Why the dark matter of galaxies is clumps of micro-brown-dwarfs and not Cold Dark Matter
[Carl H. Gibson](#) (University of California at San Diego, USA)
Comments: 24 pages, 10 figures, for Journal of Cosmology proceedings of Lorentz Center workshop on "New Directions of Modern Cosmology", Leiden, NE, Sept. 27-Oct. 1, 2010, includes new ^3He evidence of star formation by primordial planet mergers
Subjects: Earth and Planetary Astrophysics (astro-ph.EP); Cosmology and Nongalactic Astrophysics (astro-ph.CO)
10. [arXiv:1012.5522](#) [pdf]
Formation of Planets by Hydrogravitational Dynamics
[Carl H. Gibson](#) (Univ. Cal. San Diego), [Rudolph E. Schild](#) (Harvard Univ.)
Comments: 15 pages, 7 figures, for Journal of Cosmology proceedings of Lorentz Center Workshop on New Directions of Modern Cosmology, Leiden NL Sept. 27-Oct. 1, 2010
Subjects: Cosmology and Nongalactic Astrophysics (astro-ph.CO)
11. [arXiv:1012.5519](#) [pdf]
Primordial Planet Formation
[Rudolph E. Schild](#) (Harvard Univ.), [Carl H. Gibson](#) (Univ. of Cal. San Diego)
Comments: 28 pages, 4 figures, for Journal of Cosmology proceedings of the Lorentz Center Workshop on New Directions in Modern Cosmology, Leiden NL Sept. 27-Oct. 1, 2010
Subjects: Cosmology and Nongalactic Astrophysics (astro-ph.CO)
12. [arXiv:1011.3137](#) [pdf]
Matter Under Extreme Conditions: The Early Years
[R. Norris Keeler](#), [Carl H. Gibson](#) (University of California at San Diego)
Comments: 9 pages 2 figures, for Proceedings of 50th anniversary of the Joint Institute for High Temperatures, Russian Academy of Sciences (JIHT RAS), Moscow, Russia, October 19-21, 2010
Subjects: Cosmology and Nongalactic Astrophysics (astro-ph.CO)
13. [arXiv:1011.2530](#) [pdf, other]
Do micro brown dwarf detections explain the galactic dark matter?
[Theo M. Nieuwenhuizen](#), [Rudolph E. Schild](#), [Carl H. Gibson](#)
Comments: 12 pages A&A tex, 3 pdf figures
Subjects: Cosmology and Nongalactic Astrophysics (astro-ph.CO); Astrophysics of Galaxies (astro-ph.GA); General Relativity and Quantum Cosmology (gr-qc)
14. [arXiv:1009.1760](#) [pdf]
First life in primordial-planet oceans: the biological big bang
[Carl H. Gibson](#) (Univ. Cal. San Diego US) [N. Chandra Wickramasinghe](#) (Cardiff Univ. UK)
[Rudolph E. Schild](#) (Harvard Univ. US)
Comments: 15 pages 8 figures for the International Journal of Astrobiology
Subjects: Cosmology and Nongalactic Astrophysics (astro-ph.CO)
15. [arXiv:1008.4955](#) [pdf]
Evolution of primordial planets in relation to the cosmological origin of life
[N. Chandra Wickramasinghe](#) (Cardiff Univ. UK), [Jamie H. Wallis](#) (Cardiff Univ. UK), [Carl H. Gibson](#) (Univ. Cal. San Diego US), [Rudolph E. Schild](#) (Harvard Univ. US)
Comments: 14 pages 7 figures SPIE Conference 7819 Instruments, Methods, and Missions for Astrobiology XIII Proceedings, Aug 3-5, 2010, San Diego, Ed. Richard B. Hoover
Subjects: Cosmology and Nongalactic Astrophysics (astro-ph.CO)
16. [arXiv:1008.3860](#) [pdf]
Bacterial morphologies in carbonaceous meteorites and comet dust
[N. Chandra Wickramasinghe](#) (Cardiff Univ. UK), [Max K. Wallis](#) (Cardiff Univ. UK), [Carl H. Gibson](#) (Univ. Cal. San Diego US), [Jamie Wallis](#) (Cardiff Univ. UK), [Shirwan Al-Mufti](#) (Cardiff Univ. UK), [Nori Miyake](#) (Cardiff Univ. UK)

- Comments: 17 pages 15 figures SPIE conference 7819 Instruments, Methods, and Missions for Astrobiology XIII proceedings, R. B. Hoover, Ed
Subjects: Cosmology and Nongalactic Astrophysics (astro-ph.CO)
17. [arXiv:1008.3714](#) [pdf]
Primordial planets, comets and moons foster life in the cosmos
[Carl H. Gibson](#) (Univ. Cal. San Diego US), [N. Chandra Wickramasinghe](#) (Univ. Cardiff UK), [Rudolph E. Schild](#) (Harvard US)
Comments: 13 pages, 9 figures, SPIE Conference 7819 Instruments, Methods, and Missions for Astrobiology XIII, proceedings, R. B. Hoover, Ed
Subjects: Cosmology and Nongalactic Astrophysics (astro-ph.CO)
18. [arXiv:1005.2772](#) [pdf]
Turbulence and turbulent mixing in natural fluids
[Carl H. Gibson](#) (Univ. Cal. San Diego)
Comments: 23 pages 12 figures, Turbulent Mixing and Beyond 2009 International Center for Theoretical Physics conference, Trieste, Italy. Revision according to Referee comments. Accepted for Physica Scripta Topical Issue to be published in 2010
Subjects: Cosmology and Nongalactic Astrophysics (astro-ph.CO)
19. [arXiv:1004.2016](#) [pdf]
Evolution of proto-galaxy-clusters to their present form: theory and observations
[Carl H. Gibson](#) (Univ. of Cal. San Diego), [Rudy E. Schild](#) (Harvard)
Comments: 19 pages, 8 figures, rewritten and reformatted for the Journal of Cosmology
Journal-ref: Journal of Cosmology, 6, 1514-1532, 2010
Subjects: Cosmology and Nongalactic Astrophysics (astro-ph.CO); General Relativity and Quantum Cosmology (gr-qc)
20. [arXiv:1004.0504](#) [pdf]
The Origin of Life from Primordial Planets
[Carl H. Gibson](#) (Univ. Cal. San Diego), [Rudolph E. Schild](#) (Harvard), [N. C. Wickramasinghe](#) (Cardiff Univ.)
Comments: 25 pages, 14 figures, for International Journal of Astrobiology, corrections to figures, text and references
Subjects: Cosmology and Nongalactic Astrophysics (astro-ph.CO)
21. [arXiv:1003.0453](#) [pdf, ps, other]
Gravitational hydrodynamics vs observations of voids, Jeans clusters and MACHO dark matter
[Theo M. Nieuwenhuizen](#), [Carl H. Gibson](#), [Rudolph E. Schild](#)
Comments: 3 pages, Proceedings Marcel Grossmann XII, Paris 2009
Subjects: Cosmology and Nongalactic Astrophysics (astro-ph.CO); Astrophysics of Galaxies (astro-ph.GA)
22. [arXiv:1003.0091](#) [pdf]
The Imperatives of Cosmic Biology
[Carl H. Gibson](#) (University of California at San Diego) [N. Chandra Wickramasinghe](#) (Cardiff University)
Comments: 17 pages 9 figures
Subjects: Cosmology and Nongalactic Astrophysics (astro-ph.CO); Astrophysics of Galaxies (astro-ph.GA)
23. [arXiv:0906.5087](#) [pdf, ps, other]
Gravitational hydrodynamics of large scale structure formation
[Theo M. Nieuwenhuizen](#), [Carl H. Gibson](#), [Rudy E. Schild](#)
Comments: 6 pages, no figures
Journal-ref: Europhys.Lett.88:49001,2009
Subjects: Cosmology and Nongalactic Astrophysics (astro-ph.CO)
24. [arXiv:0809.2330](#) [src]
Hydrodynamics of structure formation in the early Universe
[C. H. Gibson](#) (UCSD), [T. M. Nieuwenhuizen](#) (University of Amsterdam), [R. E. Schild](#) (Harvard)
Comments: This paper has been withdrawn because it is superseded by [arXiv:0906.5087](#)
Subjects: Astrophysics (astro-ph)
25. [arXiv:0809.2271](#) [pdf]

- Turbulent formation of protogalaxies at the end of the plasma epoch: theory and observations
[R. E. Schild](#) (Harvard), [C. H. Gibson](#) (UCSD)
Comments: 12 pages 5 figures, for Nova Book on galaxy dynamics, formation and evolution.
Further information at [this http URL](#)
Subjects: Astrophysics (astro-ph)
26. [arXiv:0809.2246](#) [[pdf](#)]
Evolution of proto-galaxy-clusters to their present form: theory and observations
[C. H. Gibson](#) (UCSD), [R. E. Schild](#) (Harvard)
Comments: 14 pages 8 figures for Nova Book. Further information at [this http URL](#)
Subjects: Astrophysics (astro-ph)
27. [arXiv:0808.3228](#) [[pdf](#)]
Hydro-Gravitational-Dynamics of Planets and Dark Energy
[Carl H. Gibson](#) (UCSD) [Rudolph E. Schild](#) (Harvard)
Comments: 14 pages 9 figures, to be published in Journal of Applied Fluid Mechanics 2009, 2(1),
further information at [this http URL](#)
Subjects: Astrophysics (astro-ph)
28. [arXiv:0803.4293](#) [[pdf](#)]
Planets and Dark Energy
[Carl H. Gibson](#) (Univ. Cal. San Diego), [Rudolph E. Schild](#) (Harvard)
Comments: 9 pages 8 figures, Practical Problems in Cosmology 2008, St. Petersburg, RU, June
23-27
Subjects: Astrophysics (astro-ph)
29. [arXiv:0803.4288](#) [[pdf](#)]
Hydro-Gravitational-Dynamics Interpretation of the Tadpole VV29 Merging Galaxy System:
Dark-Matter-Halo-Planet Star-Cluster Wakes
[Carl H. Gibson](#) (Univ. Cal. San Diego)
Comments: 8 pages, 7 figures, Practical Problems in Cosmology 2008, St. Petersburg RU, June
23-27
Subjects: Astrophysics (astro-ph)
30. [arXiv:0802.3229](#) [[pdf](#), [ps](#), [other](#)]
Goodness in the Axis of Evil
[Rudolph E. Schild](#), [Carl H. Gibson](#)
Comments: 9 pages, 1 figure and 1 table, rejected by ApJ Letters not for technical reasons, but
because the manuscript is too qualitative and does not rise to the level of ApJ. And the title is
objectionable
Subjects: Astrophysics (astro-ph)
31. [arXiv:0712.0115](#) [[pdf](#)]
Vertical stratified turbulent transport mechanism indicated by remote sensing
[Carl H. Gibson](#) (UCSD), [R. Norris Keeler](#), [Valery G. Bondur](#)
Comments: 3 pages, 3 figures, SPIE News
Subjects: Astrophysics (astro-ph)
32. [arXiv:0710.5449](#) [[pdf](#), [other](#)]
Interpretation of the Stephan Quintet Galaxy Cluster using Hydro-Gravitational-Dynamics:
Viscosity and Fragmentation
[Carl H. Gibson](#) (UCSD), [Rudolph E. Schild](#) (Harvard)
Comments: 14 pages, 3 figures, see [this http URL](#) for more information
Subjects: Astrophysics (astro-ph)
33. [arXiv:0709.0074](#) [[pdf](#)]
Submerged turbulence detection with optical satellites
[Carl H. Gibson](#), [R. Norris Keeler](#), [Valery G. Bondur](#), [Pak T. Leung](#), [H. Prandke](#), [D. Vithanage](#)
Comments: 8 pages, 7 figures, SPIE Optics+Photonics 2007 Coastal Ocean Remote Sensing Aug.
27, San Diego, CA, see [this http URL](#)
Subjects: Astrophysics (astro-ph)
34. [arXiv:astro-ph/0701474](#) [[pdf](#), [other](#)]
Interpretation of the Helix Planetary Nebula using Hydro-Gravitational-Dynamics: Planets and
Dark Energy

- [Carl H. Gibson](#) (UCSD), [Rudolph E. Schild](#) (Harvard)
Comments: 56 pages 12 figures, see [this http URL](#) for jpg version and higher resolution figures
Subjects: Astrophysics (astro-ph)
35. [arXiv:astro-ph/0610628](#) [[pdf](#), [ps](#), [other](#)]
The Fluid Mechanics of Gravitational Structure Formation
[Carl H. Gibson](#) (Univ. Calif. San Diego)
Comments: 12 pages 3 figures (see [this http URL](#) for higher resolution figures)
Subjects: Astrophysics (astro-ph)
36. [arXiv:astro-ph/0606073](#) [[pdf](#)]
Cold dark matter cosmology conflicts with fluid mechanics and observations
[Carl H. Gibson](#) (Univ. of Calif. at San Diego)
Comments: 7 pages, 5 figures, J. Applied Fluid Mech. format
Journal-ref: J.Appl.FluidMech.2:1-8,2008
Subjects: Astrophysics (astro-ph)
37. [arXiv:astro-ph/0501416](#) [[pdf](#)]
The first turbulent combustion
[Carl H. Gibson](#)
Comments: 25 pages, 7 figures, accepted for publication in volume 177 of Combustion Science and Technology. Updated references. See [this http URL](#)
Subjects: Astrophysics (astro-ph)
38. [arXiv:astro-ph/0310101](#) [[pdf](#)]
Turbulence and Fossil Turbulence in Oceans and Lakes
[Pak Tao Leung](#) (UCSD), [Carl H. Gibson](#) (UCSD)
Comments: 31 pages, 11 figures, 2 tables, see [this http URL](#) Accepted for publication by the Chinese Journal of Oceanology and Limnology
Subjects: Astrophysics (astro-ph)
39. [arXiv:astro-ph/0306467](#) [[pdf](#), [ps](#), [other](#)]
Interpretation of the Helix Planetary Nebula using Hydro-Gravitational Theory
[Carl H. Gibson](#) (UCSD), [Rudolph E. Schild](#) (Harvard)
Comments: 26 pages, 6 figures, 2 tables, revised to improve figures and text, for compact pdf see [this http URL](#)
Subjects: Astrophysics (astro-ph)
40. [arXiv:astro-ph/0304483](#) [[pdf](#), [ps](#), [other](#)]
Evidence for Hydro-Gravitational Structure Formation Theory versus Cold-Dark-Matter, Hierarchical-Clustering, and Jeans 1902
[Carl H. Gibson](#) (Univ. Cal. San Diego), [Rudy Schild](#) (Harvard)
Comments: 27 pages, 5 figures, 2 tables revised to address referee comments
Subjects: Astrophysics (astro-ph)
41. [arXiv:astro-ph/0304441](#) [[pdf](#), [ps](#), [other](#)]
Planck-Kerr Turbulence
[Carl H. Gibson](#) (Univ. Cal. San Diego)
Comments: 4 pages, 2 figures, 1 table
Subjects: Astrophysics (astro-ph)
42. [arXiv:astro-ph/0304107](#) [[pdf](#), [ps](#), [other](#)]
Interpretation of the Stephan Quintet Galaxy Cluster using Hydro-Gravitational Theory
[Carl H. Gibson](#) (UCSD), [Rudolph E. Schild](#) (Harvard)
Comments: 21 pages, 3 figures, for Astronomical Journal
Subjects: Astrophysics (astro-ph)
43. [arXiv:astro-ph/0210583](#) [[pdf](#), [ps](#), [other](#)]
Interpretation of the Tadpole VV29 Merging Galaxy System using Hydro-Gravitational Theory
[Carl H. Gibson](#) (UCSD), [Rudolph E. Schild](#) (Harvard)
Comments: 16 pages, 5 figures, article for The Astronomical Journal revised according to referee comments
Subjects: Astrophysics (astro-ph)
44. [arXiv:astro-ph/0110248](#) [[pdf](#)]
Turbulence, turbulent mixing, and gravitational structure formation in the early Universe

- [Carl H. Gibson](#) (University of California at San Diego)
Comments: Keynote paper for BSME-ASME Conference on Thermal Engineering, 31 Dec. 2001 to 2 Jan. 2002, Dhaka, Bangladesh. 12 pages 8 figures, pdf file. Revision removes typos and includes discussion of "dark ages" hypothesis of Jeans-CDM models
Subjects: Astrophysics (astro-ph)
45. [arXiv:astro-ph/0110012](#) [pdf]
Turbulence and mixing in the early universe
[Carl H. Gibson](#) (University of California at San Diego)
Comments: Keynote paper for International Conference on Mechanical Engineering, Dhaka, Bangladesh, Dec. 26-28, 2001. 9 pages, 9 figures, pdf file. Revision removes typos, includes headers, and adds a figure to discuss a reinterpretation of the BOOMERANG 2001 CMB peaks as reflecting protogalaxycluster voids
Subjects: Astrophysics (astro-ph)
46. [arXiv:astro-ph/0101061](#) [pdf]
The First Turbulence
[Carl H. Gibson](#) (University of California at San Diego)
Comments: 17 page pdf file, 6 figures, preprint update
Journal-ref: Appl.Sci.Res. 72 (2004) 161-169
Subjects: Astrophysics (astro-ph)
47. [arXiv:astro-ph/0003352](#) [pdf]
Turbulent mixing, viscosity, diffusion and gravity in the formation of cosmological structures: the fluid mechanics of dark matter
[Carl H. Gibson](#) (Univ. of Cal. San Diego)
Comments: 6 pages, no figures, pdf file. See [this http URL](#) for figures and related papers
Journal-ref: Journal of Fluids Engineering, Vol. 122, Dec. 2000, 830-835
Subjects: Astrophysics (astro-ph)
48. [arXiv:astro-ph/0003147](#) [pdf]
Turbulence and diffusion: fossil turbulence
[Carl H. Gibson](#) (Univ. Cal. San Diego)
Comments: 13 pages, 4 figures, Encyclopedia of Ocean Sciences, MS 138: pdf file of final version revised to include reviewer's comments, plus corrections
Journal-ref: Encyclopedia of Ocean Sciences, Edited by John Steele, Steve Thorpe, and Karl Terekian, 2001 Academic Press, 1096-1103
Subjects: Astrophysics (astro-ph)
49. [arXiv:astro-ph/0002381](#) [pdf, ps, other]
Fossils of turbulence and non-turbulence in the primordial universe: the fluid mechanics of dark matter
[Carl H. Gibson](#) (Univ. of Cal. San Diego)
Comments: 4 pages, 1 figure, 8th European Turbulence Conference, Barcelona, Spain, June 27-30, Conference Proceedings paper
Subjects: Astrophysics (astro-ph)
50. [arXiv:astro-ph/9911264](#) [pdf, ps, other]
Hydro-gravitational fragmentation, diffusion and condensation of the primordial plasma, dark-matter and gas
[Carl H. Gibson](#) (Univ. of Cal. San Diego)
Comments: 22 pages, 2 figures, update for PASP
Subjects: Astrophysics (astro-ph)
51. [arXiv:astro-ph/9908335](#) [pdf, ps, other]
Clumps of hydrogenous planetoids as the dark matter of galaxies
[Carl H. Gibson](#), [Rudolph E. Schild](#)
Comments: 21 pages, 3 figures, re-submitted to ApJ
Subjects: Astrophysics (astro-ph)
52. [arXiv:astro-ph/9904366](#) [pdf, ps, other]
Theory and observations of galactic dark matter
[Carl H. Gibson](#), [Rudolph E. Schild](#)
Comments: submitted to A&A, pdf file with figures, or see [this http URL](#)

- Subjects: Astrophysics (astro-ph)
53. [arXiv:astro-ph/9904365](https://arxiv.org/abs/astro-ph/9904365) [[pdf](#), [ps](#), [other](#)]
The fluid mechanics of dark matter formation: Why does Jeans's (1902 & 1929) theory fail?
[Carl H. Gibson](#)
Comments: submitted to Astronomy and Astrophysics
Subjects: Astrophysics (astro-ph)
54. [arXiv:astro-ph/9904362](https://arxiv.org/abs/astro-ph/9904362) [[pdf](#), [ps](#), [other](#)]
Quasar-microlensing versus star-microlensing evidence of small-planetary-mass objects as the dominant inner-halo galactic dark matter
[Carl H. Gibson](#) (UCSD), [Rudolph E. Schild](#) (Harvard)
Comments: Resubmitted to ApJ, 36 pages, no figures
Subjects: Astrophysics (astro-ph)
55. [arXiv:astro-ph/9904330](https://arxiv.org/abs/astro-ph/9904330) [[pdf](#)]
Intermittency of internal wave shear and turbulence dissipation
[Carl H. Gibson](#)
Comments: 16 pages, 3 figures, original of article published in IUTAM Conference Proceedings, Broome, Australia, 1995
Journal-ref: Gibson, C. H., in Physical Processes in Lakes and Oceans, Coastal and Estuarine Studies Volume 54, pages 363-376
Subjects: Astrophysics (astro-ph)
56. [arXiv:astro-ph/9904317](https://arxiv.org/abs/astro-ph/9904317) [[pdf](#), [ps](#), [other](#)]
A fluid mechanical explanation of dark matter
[Carl H. Gibson](#)
Comments: 3 pages, no figures, original of published paper in Dark Matter 1998 UCLA Conference Proceedings
Subjects: Astrophysics (astro-ph)
57. [arXiv:astro-ph/9904284](https://arxiv.org/abs/astro-ph/9904284) [[pdf](#)]
Dark matter at viscous-gravitational Schwarz scales: theory and observations
[Carl H. Gibson](#)
Comments: 8 page original for Conference Proceedings Dark '96, Heidelberg, 4 figures, PDF file
Subjects: Astrophysics (astro-ph)
58. [arXiv:astro-ph/9904283](https://arxiv.org/abs/astro-ph/9904283) [[pdf](#)]
Dark matter formation at Schwarz scales: primordial fog particles and WIMP superhalos
[Carl H. Gibson](#)
Comments: 6 page original for 1996 U. Sheffield Conference Proceedings, 3 figures, PDF file
Journal-ref: Gibson, C. H., The Identification of Dark Matter, Neil J. C. Spooner, Ed., World Scientific, Singapore, 1997, 114-119
Subjects: Astrophysics (astro-ph)
59. [arXiv:astro-ph/9904269](https://arxiv.org/abs/astro-ph/9904269) [[pdf](#)]
Kolmogorov Similarity Hypotheses for Scalar Fields: Sampling Intermittent Turbulent Mixing in the Ocean and Galaxy
[Carl H. Gibson](#)
Comments: 23 pages original of Proc. Roy. Soc. article, 8 figures; in "Turbulence and Stochastic Processes: Kolmogorov's ideas 50 years on", London The Royal Society, 1991, J.C.R. Hunt, O.M. Phillips, D. Williams Eds., pages 1-240, vol. 434 (no. 1890) Proc. Roy. Soc. Lond. A, PDF file
Journal-ref: Proc.Roy.Soc.Lond. A434 (1991) 149-164
Subjects: Astrophysics (astro-ph)
60. [arXiv:astro-ph/9904260](https://arxiv.org/abs/astro-ph/9904260) [[pdf](#)]
Turbulence in the Ocean, Atmosphere, Galaxy, and Universe
[Carl H. Gibson](#)
Comments: 38 page original of AMR 49, no. 5, May 1996, 299-315; 11 figures, PDF file
Journal-ref: Appl.Mech.Rev. 49 (1996) 299-315
Subjects: Astrophysics (astro-ph)
61. [arXiv:astro-ph/9904237](https://arxiv.org/abs/astro-ph/9904237) [[pdf](#)]
Fossil turbulence revisited
[Carl H. Gibson](#)

Comments: 29 pages, 7 figures, to be published in Journal of Marine Systems July 1999, PDF file
Journal-ref: J.Mar.Syst. 21 (1999) 147-167
Subjects: Astrophysics (astro-ph)

62. [arXiv:astro-ph/9904230](https://arxiv.org/abs/astro-ph/9904230) [pdf]

Turbulent mixing, diffusion and gravity in the formation of cosmological structures: the fluid mechanics of dark matter

[Carl H. Gibson](#)

Comments: Proceedings of the FEDSM99; Fluid Engineering Division Summer Meeting 1999 July 18-23, 1999, at the Hyatt Regency Hotel in San Francisco. (8 pages, no figures, PDF file)
Subjects: Astrophysics (astro-ph)