

Dr Tamara Davis – Future Fellow, University of Queensland

Future Fellow
School of Mathematics and Physical Sciences
University of Queensland, 4072, Australia

tamarad@physics.uq.edu.au, +61 432 526 989
<http://www.physics.uq.edu.au/download/tamarad>

Biosketch

Dr Davis completed her PhD at the University of New South Wales in 2004, and received the award for the best Science PhD submitted at UNSW that year. She then worked at the Australian National University's Research School of Astronomy and Astrophysics before moving to Denmark for two years to join the Dark Cosmology Centre, which is part of the Niels Bohr Institute at the University of Copenhagen. In 2008 she returned to Australia to become a research fellow at the University of Queensland, where she recently was an associate investigator on the successful bid for the Centre of Excellence in All Sky Astrophysics, received a Discovery Project grant to study possible variations in the constants of nature, and was awarded a Future Fellowship.

Despite being an emerging researcher she is already in the top 1% of most highly cited astrophysicists in the world. In 2009 the Astronomical Society of Australia honoured her with their Louise Webster award, given to the Australian early career researcher who has had the highest international impact, and in the same year she received the L'Oréal Women in Science award for Australia. She has just been named the Australian Institute of Physics' 2011 Women-in-Physics Lecturer.

Tamara enjoys making science accessible to the public and regularly gives popular talks. She has appeared numerous times on ABC radio, twice on Catalyst, and written two feature articles for Scientific American.

In addition, Dr Davis has a degree in Philosophy, plays piano & trombone, and speaks rudimentary Danish, French, & Indonesian. She has competed at the State or National, level in six sports, and received a sports scholarship & sporting blue from the University of New South Wales. These days her sport of choice is Ultimate Frisbee and this year she will represent Australia in Italy at her third World Championships.

Major Awards

Australian Institute of Physics, Women-in-Physics Lectureship, 2011

L'Oréal Women in Science Award, given to 3-4 Australian researchers annually across all areas of Science, 2009

Astronomical Society of Australia's Louise Webster Award, for the Early Career Researcher with the highest international impact, 2009

U. Committee Award for Research Excellence in Science for the **best Doctoral thesis** submitted in 2004 across all areas of research within the Faculty of Science.

Employment History and Education

University of Queensland

Future Fellow (from Dec 2010), Lecturer (from Jan 2010), Research Fellow (2008-2009), School of Mathematics and Physical Sciences

2008-Current

Niels Bohr Institute, University of Copenhagen

Associate Professor (Lektor), Dark Cosmology Centre (joint position with University of Queensland)

2008-2010

Niels Bohr Institute, University of Copenhagen

Postdoctoral Fellow, Dark Cosmology Centre

2006-2007

Australian National University

Postdoctoral Fellow, Research School of Astronomy and Astrophysics

2004-2005

Doctor of Philosophy: Astrophysics

University of New South Wales: *Fundamental Aspects of the Expansion of the Universe and Cosmic Horizons*

22 October 2004

Bachelor of Science (Honours), Physics and Astronomy

University of New South Wales (with three semesters at University of British Columbia, Canada)

8 October 1999

Bachelor of Arts, Philosophy

University of New South Wales (with three semesters at University of British Columbia, Canada)

8 October 1999

Invited talks of most significance

Australian Institute of Physics, **Women in Physics Lecture Tour** 2011
(upcoming: 10 public, 15 school, and 7 professional talks)

Louise Webster Prize Talk, Astronomical Society of Australia meeting, Melbourne July 2009

Australian Academy of Sciences Annual Symposium, invited speaker, Canberra, May 2009.

Niels Bohr International Academy, inaugural colloquium, Copenhagen, November 2007.

UNSW Science **Graduation Ceremony**, the **Occasional Address**, March 2006.

Invited colloquia and conference talks at:

USA/Canada: Harvard, Yale, Berkeley, McMaster, Arizona State, NASA Goddard Spaceflight Centre

Europe: Oxford, Portsmouth, Rutherford Appellton Laboratory, Imperial College (UK); University of Copenhagen, University of Århus, Danish Technical University (Denmark); University of Oslo (Norway); Benasque Centre for Physics (Spain)

Australasia: University of Canterbury (NZ), plus many of the major Australian universities

Professional Service, Teaching and Supervising

Davis currently serves on **two national executive committees**. The leading body for theoretical astrophysics in Australia, the Australian National Institute for Theoretical Astrophysics (ANITA) Steering Committee (since 2008), and the Australian Time Allocation Committee (ATAC), which allocates major Australian telescope time. She has been on the **organising committee** of **three major astrophysics conferences**, including the International Astronomical Union General Assembly, and has **refereed** for 9 major astrophysics journals.

Davis has extensive **teaching experience**. She voluntarily lectures at University of Queensland, despite being employed on a research-only position, and has guest-lectured at Australian National University, University of New South Wales, and University of Copenhagen. She has taught with Swinburne Astronomy Online, adapted UNSW's Photonics and Optoelectronics Laboratory for flexible delivery (distance education), and been both tutor and web-master for "Are We Alone", a UNSW general studies course on the scientific basis of the search for extra-terrestrial life. She has also lectured for the Cosmology Distinction Course for final year high school students, Dept. of Education NSW. Davis considers **research supervision** an important part of her role, and she has so far supervised 10 Work-Experience/Undergraduate/Honours/Masters/PhD students.

Refereed Publications, Popular Talks, and Publicity

Citation Summary:

Davis' co-authored research has been **cited over 1750 times**, including more than 400 as first author. She is currently averaging 55 citations per paper, or 80 citations per first-author paper. Her citations place Dr Davis in the **top 1% of astrophysicists internationally** (Pearce 2004, *Astronomy & Geophysics*, 45, 2.15, hereafter P04).

Her highest impact first-author paper, Davis et al. 2007, gave some of the first evidence against two of the most common quantum gravity models. With over 300 citations, that paper ranks amongst the most highly cited astrophysics papers of that year and puts it in the **top 0.1% of most highly cited** astrophysics papers of the last decade, despite being published only three years ago. She also co-authored the 5th most highly cited paper of that year. She has **two Nature papers** and has written **two feature articles for Scientific American**, including the cover story for July 2011.

She has written 2 book chapters and **32 refereed papers** with one other in press and 5 more submitted, and has given **73 conference presentations or invited talks**. She is a prolific science communicator, in addition to over **30 public talks** she has had **three television** appearances, a you-tube feature, **seven hours of radio** air-time, several **popular science articles**, several dozen newspaper articles about her work, and translations of her work into German, Russian, Italian, French, and Danish.

Dr Tamara Davis – Future Fellow, University of Queensland

Future Fellow
School of Mathematics and Physical Sciences
University of Queensland, 4072, Australia

tamarad@physics.uq.edu.au, +61 432 526 989
<http://www.physics.uq.edu.au/download/tamarad>

Book Chapters:

1. Davis and Lineweaver (2006) in *Evolution: A Scientific American Reader*, Chapter 6 "Misconceptions about the Big Bang". University of Chicago Press, Scientific American Edition, ISBN 0226742695
2. Davies and Davis (2002) in *Foundations of Physics* special edition dedicated to Jakob Bekenstein, 32, 1877, "How far can the generalized second law be generalized?"

Papers in refereed journals:

1. Davis, T. M. et al. (2011), "The effect of peculiar velocities on supernova cosmology" *ApJ*, submitted
2. Blake, C., Davis, T.M., et al. "The WiggleZ Dark Energy Survey: testing the cosmological model with baryon acoustic oscillations at $z=0.6$ ", *MNRAS*, submitted
3. Nesseris, S., Blake, C., Davis, T.M., & Parkinson, D. (2011), "Constraints on the evolution of Netwon's constant from WiggleZ growth of structure measurements", submitted
4. Wisnioski et al. (2011), "High resolution kinematics of extreme star-forming galaxies in the WiggleZ dark energy survey", *ApJ*, Submitted
5. Blake, C. et al. (2011), "Mapping out the acceleration of the Universe using a geometric measurement of the cosmic expansion history", *Science*, submitted
6. Blake, C. et al. (2011), "The WiggleZ Dark Energy Survey: the growth rate of structure since $z=0.9$ ", *MNRAS*, in press
7. Cormier, D., and Davis, T.M. (2011), "The study of Type Ia supernovae spectral diversity using principal component analysis", *MNRAS*, 410(4), 2137-2148
8. Davis, T. M. (2010), "The Universe is Leaking", *Scientific American*, July, 32–39
9. Blake, C. et al. (2010), "The WiggleZ Dark Energy Survey: the selection function and $z=0.6$ galaxy power spectrum", *MNRAS*, 406(2), 803-821
10. Sinclair, B., Davis, T.M., and Haugbølle, T. (2010), "Residual Hubble-bubble Effects on Supernova Cosmology", *ApJ*, 718(2), 1445-1455
11. Lampeitl, H. et al. (2010), "First-year SDSS-II supernova results: consistency and constraints with other intermediate-redshift datasets", *MNRAS*, 401(4), 2331-2342
12. Drinkwater, M. et al. (2010), "The WiggleZ dark energy survey", *MNRAS*, 401(3), 1429-1452
13. Sollerman, J. et al. (2009), "First-year SDSS-II SN results: Constraints on non-standard cosmological models", *ApJ*, 703(2) 1374-1385
14. Kessler, R. et al. (2009), "First-year SDSS-II SN results: Hubble diagram & cosmo. params", *ApJS*, 185(1), 32-84
15. Blake, C. et al. (2009), "The WiggleZ Dark Energy Survey: small-scale clustering of Lyman Break Galaxies at $z<1$ ", *MNRAS*, 395(1), 240-254
16. Foley, R. et al. (2009) "Spectroscopy of High-Redshift Supernovae from the ESSENCE Project: The First Four Years", *AJ*, 137(4), 3731-3742
17. Blake, C. et al. (2008) "The WiggleZ Dark Energy Survey", *Astronomy & Geophysics* 49(5) 5.19-5.24
18. Becker, A. et al. (2008) "Exploring the outer solar system with the ESSENCE SN Survey", *ApJL*, 682(1), L53-L56
19. Blondin, S., Davis, T. M. et al. (2008) "Time Dilation in Type Ia SN Spectra at High Redshift", *ApJ* 682(2), 724-736
20. Foley, R. J., et al. (2008) "Constraining Cosmic Evolution of Type Ia Supernovae", *ApJ*, 684, 68-87
21. Davis, T. M., et al. (2007) "Scrutinizing exotic cosmological models using ESSENCE Supernova data combined with other cosmological probes", *ApJ*, 666, 716
22. Wood-Vasey, W., et al. (2007) "Observational Constraints on the Nature of the Dark energy: First Cosmological Results from the ESSENCE SN Survey", *ApJ*, 666, 694
23. Miknaitis, G., et al. (2007) "The ESSENCE SN Survey: Survey optimization, observations, & photometry", *ApJ*, 666, 674
24. Cunningham, M., et al. (2007) "A search for propylene oxide and glycine in Sagittarius B2 (LMH) and Orion", *MNRAS*, (2007) 376.120
25. Fynbo, J. P., et al. (2006) "A new type of massive stellar death: no supernovae from two nearby long gamma ray bursts", *Nature*, 444, 1047, *astro-ph/0608313*
26. James, J. B., Davis, T. M., Schmidt, B. P. and Kim, A. (2006), "Spectral diversity of Type Ia SNe", *MNRAS*, 370, 933–940
27. Sollerman, J., et al. (2006) "Supernova 2006aj and the associated X-Ray Flash 060218", *A&A* 454, 503–509
28. Blondin, S., et al. (2006) "Optical line-profile morphology in low- & high-redshift type Ia supernovae", *AJ*, 131, 1648
29. Davis, T. M., Schmidt, B. & Kim, (2006) "Ideal bandpasses for type Ia SN cosmology", *PASP*, 118 (840), 205–217
30. Purcell, C. R., et al (2006) "A CH₃CN and HCO⁺ survey towards southern methanol masers associated with star formation", *MNRAS*, 367, 553–576
31. Davis, T. M. and Lineweaver, C. H. (2005) "Misconceptions about the Big Bang", *Scientific American*, March, 36–45
32. Davis, T. M. and Lineweaver, C. H. (2004) "Expanding Confusion", *PASA*, 21, 97–109
33. Davis, T. M., Davies, P.C.W. and Lineweaver, C. H. (2003) "Black hole versus cosmological horizon entropy", *Classical and Quantum Gravity*, 20, 2753–2764
34. Davis, T. M., Lineweaver, C. H. and Webb, J. K. (2003) "Solutions to the tethered galaxy problem", *American Journal of Physics*, 71(4), 358–364
35. Lineweaver, C. & Davis, T. (2003) "The non-observability of recent biogenesis", *Astrobiology*, 3(2), 241–244
36. Davies, P. C. W. and Davis, T. M. (2002) "How far can the generalized second law be generalized?", *Foundations of Physics*, 32(12), 1877–1889
37. Lineweaver, C. H. and Davis, T. M. (2002) "Does the rapid appearance of life on Earth suggest that life in the Universe is common?", *Astrobiology*, 2(3), 293–304
38. Davies, P. C. W., Davis, T. M. and Lineweaver, C. H. (2002) "Black holes constrain varying constants", *Nature*, 418(6898), 602–603

Conference Presentations and Invited Talks:

For a list of the **73 conference presentations** and invited talks, please consult the extended resume on my website, <http://www.physics.uq.edu.au/download/tamarad/astro> . Highlights include:

1. Perimeter Institute Australia Foundations workshop, invited talk, Brisbane, 1 December 2010
2. **Benasque Cosmology Workshop, invited speaker**, "The WiggleZ dark energy survey", Spain, 3 August 2010
3. Rutherford Appleton Laboratory Colloquium, "The un-Leaky Universe", 9 June 2010
4. **Oxford Particle Physics Colloquium**, "The WiggleZ dark energy survey", 8 June 2010
5. **Cosmology and Particle Physics Conference, Plenary speaker**, "Supernova Cosmology: latest results", Melbourne, 19 Nov 2009
6. **Louise Webster Prize Talk**, Astronomical Society of Australia Meeting, Melbourne, 30 June 2009
7. Unity in the Universe, "Latest Cosmological Constraints on Fundamental Physics", Portsmouth, UK, 8 July 2009

8. University of Chicago, Astrophysics talk, "Peculiar velocities in SDSS SN Search", Chicago, 19 May 2009
9. **Aust. Academy of Science Symposium, invited speaker**, "Evolution of the universe, the planets, life and thought? – Evolution of physical law", Canberra 8 May 2009.
10. **Invited conference talk, DARK 2009**, 7th International Heidelberg Conference on Dark Matter and Astroparticle Physics, Christchurch NZ, January 2009, "Model independent cosmology"
11. American Astronomical Soc. Annual Meeting, Jan 2008, Austin, Texas, "Scrutinizing exotic cosmological models"
12. Colloquium, Beyond Center, Arizona State University, December 2007, "Dark Energy"
13. **Colloquium, Yale University**, December 2007, "Dark Energy: is the simplest model really the best?"
14. **Niels Bohr International Academy inaugural colloquium**, Denmark, Oct. 2007, "Confusing Cosmology"
15. **Invited speaker, Nordic Network of Women in Physics**, August 2007
16. Astrophysics Seminar, Oslo University, Norway, March 2007, "Assessing the viability of dark energy scenarios"
17. **Occasional Address**, UNSW Science Graduation Ceremony, Sydney, March 2006,
18. Astrobiology seminar, Niels Bohr Institute, **Filmed and shown on Danish Television**, Kanal København, Feb 2006,
19. **Inaugural Colloquium of 'Origins' series**, McMaster University, Canada, November 2004, "Are We Alone?"
20. Colloquium, Imperial College, London, 27 March 2002, "Cosmological event horizons and entropy"

Public presentations

Popular science articles:

1. Kvant (Danish newspaper), "Universet bliver mørkere og mørkere", co-authored with Signe Riemer-Sorensen, December 2010
2. **Scientific American, cover story**, "Is the Universe Leaking Energy?", *Scientific American*, July 2010
3. *Scientific American*, "Ask the Experts" segment, "If galaxies are all moving apart, how can they collide?", 18 March 2009
4. **Scientific American, feature article**, "Misconceptions about the Big Bang", *Scientific American*, March 2005, 36–45
5. ABC online forum, live web chat, black holes and time warps, February 2002, <http://www.2b.abc.net.au/science/wormholes/guests.htm> <http://www.abc.net.au/science/play/forums.htm>
6. Sky & Space Magazine, Aug 2000, page 10, "Light vs The Universe"

Public talks:

1. Onslow College, Wellington, NZ, Year 11 class, talk (by video-skype), 5 November 2010
2. South East Queensland Astronomical Society, talk "The dark side", 19 Oct 2010
3. Astronomical Association of Queensland, talk "The dark side", 16 Oct 2010
4. ABC Café Scientific, "The Gloriously Messy Universe", Live panel discussion as part of Queensland book festival, recorded for radio, 5 September 2010
5. Queensland Skeptics Society, "Revealing the dark side of the universe", 29 March 2010
6. Australia Day Ambassador, Toowoomba, speech, 26 January 2010
7. Siemans Science Experience, UQ, 'Soundwaves in space...', inspirational talk to year 10 high achievers, 20 Jan 2010.
8. Young Achievers Program, UQ, "A Spacetime Symphony", inspirational talk to year 11 high achievers, presented along with UQ musicians, linking astrophysics and music, Nov 2009
9. Theatrical Astronomy: cosmology, with Kevin Pimblet & Michael Drinkwater, UQ Physics Society, 26 October 2009
10. Astronomical Society of Queensland, "Chasing Dark Energy", Brisbane Planetarium 24 October 2009
11. L'Oréal Women in Science High School Forum, 26 August 2009
12. L'Oréal Women in Science Award Ceremony, Melbourne 25 August 2009
13. L'Oréal Women in Science Prize morning tea, Melbourne 21 August 2009
14. Queensland Astrofest, Invited talk, "Cosmological confusion", 15 August 2009, <http://www.qldastrofest.org.au/html/tamara.htm>
15. BrisScience talk, Brisbane Town Hall, "Theatrical Astronomy: planets", with Kevin Pimblet and Michael Drinkwater, 30 March 2009
16. Brisbane Astronomical Society talk, "Searching for the dark side of the force", October 2008
17. BrisScience talk, Brisbane Town Hall, "Theatrical Astronomy: cosmology", with Kevin Pimblet and Michael Drinkwater, October 2008, <http://brissscience.wordpress.com/2008/10/06/monday-6-october-2008/#more-99>
18. Lawnton State School, international womens day, March 2008, kindergarten - grade 2.
19. Eurocon 2007 (Science fiction festival), invited talk, Sept 2007, "Dark energy and its unexpected implications"
20. Folkeuniversitet (Folk University) talk, Aalborg, March 2007, "Cosmic Lighthouses and Expanding Horizons"
21. Folkeuniversitet (Folk University) talk, Århus, October 2006, "Cosmic Lighthouses and Expanding Horizons"
22. Folkeuniversitet (Folk University) talk, Copenhagen, October 2006, "Cosmic Lighthouses and Expanding Horizons"
23. Dark Cosmology Centre, Undergraduate guest lecture, May 2006, "Introduction to General Relativity"
24. "Are we alone?", Astrobiology seminar, Niels Bohr Institute, Feb 2006, Filmed and shown on Danish Television, Kanal København
25. Western Sydney Amateur Astronomy Group, invited talk, Jan 2003, Life, the Universe and Everything"
26. Northern Suburbs Astronomical Society, Sydney, invited talk, September 2002
27. Astronomical Society of New South Wales, invited talk, July 2002
28. Science in the Pub, Bundaberg, (ABC radio debate), 14 Jun 2002, <http://www.abc.net.au/local/stories/2002/06/14/581458.htm>
29. Sutherland Astronomical Society, Sydney, invited talk, October 2001
30. St Catherine's School, invited talk for accelerated students, 2001

Media

Davis' research has received worldwide media attention and been translated into several languages, including German, Russian, Italian, French, and Danish.

Television appearances or features:

L'Oréal Women in Science segment: You Tube August 2009, http://www.youtube.com/watch?v=d_d_z3qy1bM

Catalyst: ABC Science Show. Feature story on Davis' research with dark energy and supernovae, 13 April 2006, <http://www.abc.net.au/catalyst/stories/s1615519.htm>

Kanal København: hour long broadcast of a seminar Davis' presented on Astrobiology, 10 Feb 2006, 11am.

Channel 31: "Extrasolar Planets and the Probability of Life in the Universe?", about Lineweaver and Davis 2 Sept 2002, 7pm

Catalyst: ABC Science Show. Interview with Lineweaver about Davies, Davis, and Lineweaver 2002 *Nature* (5 minutes).

Channel 7 Morning News: 6 minute live interview with Lineweaver about *Nature* paper.

ABC Nightly News: primetime, feature about *Nature* paper.

ABC World at Noon: feature about the *Nature* paper.

Radio broadcasts:

ABC Local Radio, QLD and NSW: "Lost in Space", Conversations with Richard Fidler, excerpts from earlier interview, 51mins, 28 February 2011; Podcast

<http://www.abc.net.au/local/stories/2011/02/28/3150798.htm>

ABC Radio National: "The Gloriously Messy Universe", on Big Ideas, repeated 6pm Thurs 13 Jan 2011

ABC Radio National: "The Gloriously Messy Universe", on Big Ideas, 54mins, 5pm Sunday 9 Jan 2011; Podcast

<http://www.abc.net.au/rn/bigideas/stories/2011/3095752.htm>

4BC Brisbane Radio, QLD: Guest speaker on the "Paranormal Panel", with Walter Williams, 54 minutes, 2 Nov 2010.

ABC Local Radio, QLD and NSW: "Conversations with Richard Fidler, Highlights of 2009", repeat of the live radio interview from Oct 2009, 55 minutes, 22 January 2010.

ABC Local Radio, QLD and NSW: The afternoon show with Richard Fidler, Live interview about the Large Hadron Collider, 5 mins, 25 November 2009.

ABC Local Radio, QLD and NSW: "Conversations with Richard Fidler", Live radio interview, 55 minutes, 27 Oct 2009; Podcast

<http://www.abc.net.au/local/stories/2009/10/27/2725468.htm>

ABC Radio National: "Australia Talks", Live talkback interview, on fascination astronomy with Jonathan Nally & David De Boer, 50 minutes, 7 Apr 2009, <http://www.abc.net.au/rn/australiatalks/stories/2009/2534345.htm>

ABC Radio National: "Australia Talks", Live talkback interview on dark energy, along with Charles Lineweaver and Brian Schmidt, 50 minutes, 27 Nov 2008, <http://www.abc.net.au/rn/australiatalks/stories/2008/2430181.htm>

ABC Brisbane Radio: Live interview with Katrina Davidsson, cosmology, 15 mins, 19 May 2008

ABC 702, 2BL in Sydney, 9 August 2002, on varying constants

GOLD 92.5 FM news: 17 May 2002, on biogenesis.

Radio 2CC Canberra: 17 May 2002, 5:10pm, on biogenesis.

ABC Radio Newcastle: Science show, interview with Lineweaver on biogenesis, 16 May 2002

Newspapers and Magazines:

2010, Jan 18, Highfields Herald (cover)

2008, April 28, **New Scientist Space** "Cosmic time warp revealed in slow-motion supernovae" by Stephen Battersby
2008, August 14, **Nature** Vol 454, page 14, Paragraph citation in "**Research Highlights**" section, "Slow-motion supernovae"
2008, April, Front page of UQ News
2008, Mar 8, Courier Mail, Brisbane, Scientist profile in "Heavens Above" section, for International Women's day.
2007, Jun 6, Two page article in Ingeniøren (Denmark)
2007, Feb 21, Full page article in Berlingske (Denmark),
2002, Sept 2, "Fisica: Luce in frenata", www.galileonet.it/Magazine/mag0233/0233_1.html
2002, Aug 29, Article in the Italian "Galileo" magazine of science and technology, www.galileonet.it
2002, Aug 25, Southern Courier, by Adam Bell
2002, Aug 12, Los Angeles Times, "Theory Tests Constancy of the Speed of Light"
2002, Aug 10, Northern Districts Times, by Melissa Page
2002, Aug 9, The Australian, "Light speed on the edge of black hole" by Bernard Lane
2002, Aug 9, La Repubblica, Italy
2002, Aug 9, Corriere della Sera "La teoria di Einstein sbagliata"
2002, Aug 9, El Pais, Spain
2002, Aug 8, National Post, Canadian Daily, Canada
2002, Aug 8 **New Scientist** "Black hole theory suggests light is slowing" by Hazel Muir
2002, Aug 8, The Age, Melbourne, "The speed of light - not as fast as thought" by David Wroe
2002, Aug 8, The Age, Melbourne, "Einstein's relativity theory hits a speed bump" by David Wroe
2002, Aug 8, The West Australian "Light may be slowing"
2002, Aug 8, **Sydney Morning Herald, on cover**, "Not so fast Einstein" by Deborah Smith
2002, May 19, Sydney, Sun-Herald
2002, May 17, Melbourne, Herald-Sun, 2002
2002, May 17, **New Scientist**, "Probability of alien life rises" by Jeff Hecht
2001, Nov 6, The Age Newspaper, Melbourne, Australia, page 3, "Universal notion of speed moves on", by Penny Fannin

Internet journalism and websites:

Please consult Google! Also see my website,

<http://www.physics.uq.edu.au/download/tamarad/>