

PROFESSIONAL EXPERIENCE

Cornell University, Department of Astronomy, Assistant Professor, Aug. 2005 - present.
Princeton University, Dept. of Astrophysical Sciences, Postdoctoral Research Fellow, Sep. 2002-Aug. 2005.
Bridgewater Consulting, London, Associate Consultant, 1997-1998.
Accenture, Strategy Division, London, Senior Analyst, 1995-1997.

EDUCATION

Imperial College, University of London, U.K., PhD thesis, supervisor Dr. João Magueijo, 1999-2002.
Thesis title: “*Cosmological scalar field theories and their observational implications*”.
Imperial College, University of London, U.K., MSc in Quantum Fields & Fundamental Forces (Distinction),
Dissertation: “*Departures from CMB Gaussianity using inflationary models*” 1998-1999.
Christ’s College, Cambridge University, U.K., BA Hons. Natural Sciences, 1992-1995.

HONORS AND AWARDS

Early Career Development (CAREER) Award, National Science Foundation, 2009-2014.
Cottrell Scholar Award, Research Corporation, 2008-2011.
Kavli Frontiers Fellow, National Academy of Sciences, December 2006 & November 2007.
NASA Group Achievement Award (for WMAP), May 2007.
Affinito-Stewart Award, President’s Council of Cornell Women, 2006.

RESEARCH SUPPORT

PI, National Science Foundation AST0844825, “*CAREER: Observational Signatures of Fundamental Physics in the Cosmos*”, 2009-2014, \$627,814
Cottrell Scholar Award, Research Corporation, 2008-2011.
PI, NASA Astrophysics Theory Program, “*Confronting the details of cosmology’s dark sector*”, 2008-2011,
(Co-Is Eanna Flanagan and Mark Trodden).
PI, National Science Foundation AST0607018, “*Dark Energy Dichotomies: Observational signatures of matter and gravity based theories.*”, 2006-2009.
Co-I, National Science Foundation PHY0555216, “*Astronomical consequences of fundamental physics*”,
2006-2009, (PI Ira Wasserman, Co-I Eanna Flanagan).
Affinito-Stewart Award, President’s Council of Cornell Women, 2006.
PI, National Center for Supercomputing Applications (NCSA) TG-AST060029T, 2006-2007.

GRADUATE STUDENTS MENTORED

Nishant Agarwal (2006-)
David Bernat (2005-2007)
Istvan Laszlo (2005-)
Maria Antonella Cid Munoz (2008, Fulbright Student from CONICYT, Chile)
Matipon Tangmatitham (2007-)

UNDERGRADUATE STUDENTS MENTORED ON RESEARCH PROJECTS

Gavin Hartnett (Syracuse University), NSF REU student summer 2008
Nicholas Hollon (Villanova University), NSF REU student summer 2007
Daniel Rasolt (2006)
Derek Schaeffer (2006-2007)
Matipon Tangmatitham (2006-2007)

UNIVERSITY TEACHING

ASTRO 2211: Stars, Galaxies & Cosmology: Intro course for science & engineering students (annually fall '06-'09).
ASTRO 4432: Introduction to Astrophysics & Space Sciences II: for astronomy & physics majors (spring, '07,'09).
ASTRO/PHYS 6599: Cosmology: Graduate level course (spring '06, '08, '10)
Lecturer at the Theoretical Advanced Study Institute in Elementary Particle Physics (TASI) 2009, "Physics of the Large and the Small", Boulder, CO, June 2009.
Cornell Adult University Online CyberTower Study Room, "The Puzzling Life of the Universe", July 2008 online at <http://sandstone5.cit.cornell.edu/Requester/r/roomMain/Cosmophys>.
Lecturer at "XVIII Physics Graduate Days in Heidelberg", Heidelberg University, Germany, April 2007.
Imperial College, University of London, Classroom teaching assistant for undergraduate physics, 1999-2000.

HIGH SCHOOL TEACHING

Mander Portman Woodward College, London, Teacher in 'A' level maths, 2000-2002.
Campbell Harris College, London, Teacher in 'A' level maths, physics and chemistry, 1999-2000.

ACADEMIC AND GOVERNMENT REVIEWS

National Academy of Sciences (NAS) Astronomy and Astrophysics Decadal Survey Cosmology and Fundamental Physics Science Frontiers Panel member, 2009.
NASA Astrophysics Division proposal review panel member, 2 panels 2006, 1 panel 2008.
National Science Foundation (NSF) proposal review panel member, 2008.
UK Science Technology Facilities Council (STFC) proposal reviewer, 2007.
US Government Astronomy & Astrophysics Advisory Committee Dark Energy Taskforce Report reviewer, 2006.
National Optical Astronomy Observatory (NOAO) Telescope Allocation Committee panel member, 2005.
NASA Astrophysics Division proposal review panel chair, 2004.

Scientific journal referee for Astrophysical Journal, Astrophysical Journal Letters, Classical and Quantum Gravity, Journal of Cosmology and Astroparticle Physics, Journal of Physics A, Monthly Notices of the Royal Astronomical Society, Nuclear Physics B, Physics Letters B, Physical Review Letters and Physical Review D.

CONFERENCE ORGANIZATION

Organizing committee member, Aspen Center for Physics Summer Workshop , "Testing General Relativity in the Cosmos", June - July 2009.
Organizing committee member, Aspen Center for Physics Winter Conference , "Understanding the Dark Sector: Dark Matter and Dark Energy", January 2009.
Organizing Committee member, National Academy of Sciences Japanese - American Kavli Frontiers of Science Symposium, December 2007.

CONFERENCE ORGANIZATION continued

- Chair of the Dark Energy session, “New Views of the Universe” conference, Chicago, December 2005.
- Co-organizer of Astrophysics workgroup, “Weak Interaction and Neutrinos 2005(WIN’05)” conference, Delphi, Greece, June 2005.
- Chair of Cosmology/ Structure Formation session, American Physical Society Meeting, Tampa, Florida, April 2005.
- Organizer of the dark energy sessions, “COSMO ’04” conference, Toronto, Canada, September 2004.
- Organizer Oxford-Princeton Cosmology Workshops, 2003- 2005.
- Co-chair of dark energy session and review speaker, Santa Fe Workshop on Cosmology, Santa Fe, June 2003.

PLENARY & INVITED CONFERENCE TALKS / LECTURES

- “Essential Cosmology for the Next Generation”, Playa del Carmen, Mexico, January 2010 [invited].
- “New Horizons in Particle Cosmology”, University of Pennsylvania, Philadelphia, December 2009 [invited].
- “Understanding the Dark Sector”, Aspen Center of Physics Winter Conference, Aspen, CO, January 2009.
- “Branes, Strings and Inflation” micro-symposium, Princeton University, Princeton, NJ, October 2008.
- COSMO’08, Madison, WI, August 2008.
- Great Lakes Cosmology Workshop, Carnegie Mellon University, Pittsburgh, PA, June 2008.
- 11th Northeast String Cosmology workshop, Columbia University, New York, NY, May 2008.
- “A Decade of Dark Energy”, Space Telescope Science Institute Symposium 2008, Baltimore, MD, May 2008.
- National Academy of Sciences Annual Meeting, Washington DC, April 2008.
- Benjamin Dean Lecture, California Academy of Sciences, San Francisco, CA, March 2008.
- “Origins and Observations of Primordial Non-Gaussianity”, Perimeter Institute, Waterloo, ON, March 2008.
- National Academy of Sciences, U.S. Kavli Frontiers of Science Symposium, Irvine, CA, November 2007.
- XIXèmes Rencontres de Blois “Matter and energy in the Universe: from nucleosynthesis to cosmology”, Blois, France, May 2007.
- “XVIII Physics Graduate Days in Heidelberg”, Heidelberg University, Germany, April 2007.
- U.K. Annual Theory Meeting, Durham University, England, December 2006.
- Cosmology on the Great Lakes, Perimeter Institute, Canada, November 2006.
- “Cosmic Frontiers” Cosmology Conference, Durham University, England, July 2006.
- SLAC Summer Institute “The Next Frontier: Exploring with the LHC.”, Stanford, July 2006.
- SUSY’06, Irvine, June 2006.
- External Correlations of the CMB and Cosmology Workshop, Fermilab, Batavia, May 2006.
- Francesco Melchiorri Memorial Conference, Rome, Italy, April 2006.
- Conference on Fundamental Physics With Cosmic Microwave Background Radiation, Irvine, March 2006.
- Aspen Center for Physics Winter Conference, Aspen, February 2006.
- European Dark Energy Network Workshop, Paris, France, December 2005.
- American Physical Society Symposium, Colgate University, New York, November 2005.
- Frontiers of Contemporary Physics - III, Vanderbilt University, Nashville, May 2005.
- American Physical Society Meeting, Tampa, Florida, April 2005.
- “A century after Einstein”, Institute of Physics Conference, University of Warwick, England, April 2005.
- The Taro Tamura Symposium, University of Texas at Austin, Texas, November 2004.

PLENARY & INVITED CONFERENCE TALKS / LECTURES continued

- PASCOS '04, Northeastern University, Boston, Massachusetts, August 2004.
 Enrico Fermi Summer School , Varenna, Italy, July 2004.
 “Beyond Einstein-From the Big Bang to Black Holes” , Stanford University, California, May 2004.
 Mitchell Symposium on Observational Cosmology, Texas A&M University, Texas, April 2004.
 “Observing Dark Energy”, Tuscon, Arizona, March 2004.

INVITED COLLOQUIA AND SEMINARS

- Jet Propulsion Laboratory, California Institute of Technology, Astrophysics colloquium, February 2010 [invited].
 Harvard University, Joint MIT/CfA/Tufts cosmology seminar, Boston, MA, February 2010 [invited].
 Perimeter Institute, Waterloo, ON, Canada, January 2010 [invited].
 University of Pennsylvania, Dept. of Physics & Astronomy colloquium, Philadelphia, PA, December 2009 [invited].
 University of Florida, Dept. of Physics seminar, Gainesville, FL, December 2009 [invited].
 Cornell University, Dept. of Astronomy seminar, October 2009.
 Saclay Journal Club, Commissariat à l'Énergie Atomique (CEA), Paris, France (by VideoCon), October 2009.
 University of Arizona, Dept. of Astronomy colloquium, Tuscon, AZ, February 2009.
 University of Michigan, Dept. of Physics colloquium, Ann Arbor, MI, September 2008.
 Princeton University, Dept. of Physics seminar, Princeton, NJ, April 2008.
 University of California Berkeley, Dept. of Physics seminar, Berkeley, CA, March 2008.
 Cornell University, Dept. of Astronomy seminar, March 2008.
 Cornell University, Dept. of Astronomy colloquium, March 2008.
 University of Buffalo, Dept. of Physics seminar, Buffalo, NY, February 2008.
 University of Pennsylvania, Dept. of Physics & Astronomy seminar, Philadelphia, PA, February 2008.
 Harvard University, Center for Astrophysics, Joint Harvard-MIT-Tufts colloquium, Boston, MA, November 2007.
 Wells College, Dept. of Physics seminar, Aurora, NY, October 2007.
 McGill University, Dept. of Physics colloquium, Montreal, Canada, September 2007.
 Canadian Institute for Theoretical Astrophysics, seminar, Toronto, Canada, May 2007.
 University of Rome, La Sapienza, Dept. of Physics colloquium & more technical seminar, Italy, March 2007.
 Space Telescope Science Institute, colloquium, Baltimore, MD, March 2007.
 University of Wisconsin, Dept. of Physics colloquium & more technical seminar, Madison, WI, February 2007.
 Hamilton College, Dept. of Physics colloquium, Clinton, NY, November 2006.
 Cornell University, Dept. of Physics colloquium, March 2006.
 Cornell University, Dept. of Astronomy seminar, March 2006.

PUBLIC UNDERSTANDING OF SCIENCE & OUTREACH

- Lecturer for the Cornell Center for Nanoscale Science Institute for Physics Teachers,
 for New York State science teachers, July 2006, March & July 2007, July 2008, July 2009.
 Science Teachers Association of New York State (STANYS) seminar, Ithaca, NY, February 2009.
 Steward Observatory Public Lecture, University of Arizona, Tuscon, AZ, February 2009.
 “*Exciting Times Ahead for Dark Energy Search*”, article for the Discovery Channel website, December 2008.
 Radio interview for “Static Limit” KUSF 90.3FM, San Fransisco, April 2008.
 Talk on cosmology to New York City Chapin Girls’ Middle School students, Ithaca, May 2007, April 2008, 2009.
 Science News Magazine interview on the 10th anniversary of the discovery of dark energy, January 2008.

PUBLIC UNDERSTANDING OF SCIENCE & OUTREACH continued

New Scientist, “*Did the big bang spawn trillions of black holes?*”, October 2007.

Public lecture at the Southern Cayuga Central Schools Planetarium, Aurora, NY, October 2007.

Public lecture at the Wings of Eagles Discovery Center, Public outreach program in Elmira, NY, February 2007.

Talk for the Cornell Center for Materials Research “Ask a Scientist Live” after-school program, Nottingham High School, Syracuse, January 2007.

Reuters, “*‘Dark matter’ is real: U.S. scientists say*”, August 2006.

Talk on cosmology to Ithaca High School science students, May 2006.

Adult discussion panel member, Expanding Your Horizons Conference, Cornell University. Encouraging middle school girls’ interest in science, maths and engineering, April 2006.

DEPARTMENTAL / UNIVERSITY SERVICE

Cornell representative to the LSST board (2009-)

Department of Astronomy colloquium committee (2006).

Department of Astronomy course committee (2007, 2008, 2009).

Department of Astronomy graduate admissions committee (2005).

Field of Astronomy graduate committee chair for 3 students. (2006-)

Field of Astronomy graduate committee member for 4 students. (2005-)

Department of Astronomy REU discussion group (2008, 2009).

Department of Astronomy REU presentation (2006, 2007, 2009).

Department of Astronomy Summer Teacher’s Institute discussion group (2008).

Field of Physics graduate committee chair for 1 student.

Field of Physics graduate committee member for 3 students.

First year exam committee member for 1 student, Field of Physics (2007).

Friends of the Department of Astronomy presentation (2007, 2009).

Physical Sciences Library advisory committee (2005, 2006).

Undergraduate major advisor for 2 students, Department of Astronomy.

Undergraduate advisor for College of Arts and Sciences students (2005-).

University Alumni Weekend presentation (2005).

PUBLICATIONS

- R. Bean, “*A weak lensing detection of a deviation from General Relativity on cosmic scales*”, arxiv:0909.3853 (astro-ph).
- F. De Bernardis, R. Bean, S. Galli, A. Melchiorri, J. Silk, L. Verde, “*Delayed Recombination and Standard Rulers*”, Phys. Rev. D. 78 063532 (2009), arxiv:0812.3557 (astro-ph).
- D. Baumann et. al., “*CMBPol Mission Concept Study: Probing Inflation with CMB Polarization*”, AIP Conf. Proc.1141:10-120 (2009), arxiv:0811.3919 (astro-ph).
- P. Zhang, R. Bean, M. Liguori and S. Dodelson, “*Weighing the spatial and temporal fluctuations of the dark universe*”, arxiv:0809.2836 (astro-ph).
- N. Agarwal and R. Bean, “*Cosmological constraints on general, single field inflation*”, Phys. Rev. D 79 023503 (2009), arxiv:0809.2798 (astro-ph).
- R. Bean, E. Flanagan, I. Laszlo and M. Trodden, “*Constraining Interactions in Cosmology’s Dark Sector*”, Phys. Rev. D 78, 123514 (2008), arxiv:0808.1105 (astro-ph).
- S. Galli, R. Bean, A. Melchiorri and J. Silk, “*Delayed Recombination and Cosmic Parameters*”, Phys. Rev. D. 78 063532 (2008), arxiv:0807.1420 (astro-ph).
- R. Bean, X. Chen, G. Hailu, S.-H. H. Tye and J. Xu, “*Duality Cascade in Brane Inflation*”, JCAP 03 (2008) 026, arxiv:0802.0491 (hep-th).
- R. Bean, D. J. H. Chung and G. Geshnizjani, “*Reconstructing a general inflationary action*”, Phys. Rev. D 78 023517 (2008), arxiv:0801.0742 (astro-ph).
- R. Bean, X. Chen, H. V. Peiris and J. Xu, “*Comparing Infrared Dirac-Born-Infeld Brane Inflation to Observations*”, Phys. Rev. D 77 (2008) 023527, arXiv:0710.1812 (hep-th)
- R. Bean, E. Flanagan and M. Trodden, “*Adiabatic instability in coupled dark energy-dark matter models*”, Phys. Rev. D 78, 023009 (2008), arXiv:0709.1128 (astro-ph) .
- R. Bean, E. Flanagan and M. Trodden, “*The Adiabatic Instability on Cosmology’s Dark Side*”, New J. Phys. 10 (2008) 033006, arXiv:0709.1124 (astro-ph).
- I. Laszlo and R. Bean, “*Nonlinear growth in modified gravity theories of dark energy*”, Phys. Rev. D. 77 (2008) 024048 arXiv:0709.0307 (astro-ph).
- N. Agarwal and R. Bean, “*The dynamical viability of scalar-tensor theories with a general coupling*”, Class. Quantum Grav. 25 (2008) 165001, arxiv:0708.3967 (astro-ph).

PUBLICATIONS continued

P. Zhang, M. Liguori, R. Bean, S. Dodelson, “*A discriminating probe of gravity at cosmological scales*”, Phys. Rev. Lett. 99, 141302 (2007), arxiv:0704.1932 (astro-ph).

R. Bean, S. E. Shandera, H. R. H. Tye, J. Xu, “*Comparing Brane Inflation to WMAP*”, JCAP 05 (2007) 004, arxiv: hep-th/0702107.

R. Bean, A. Melchiorri, J. Silk, “*Cosmological constraints in the presence of ionizing and resonance radiation at recombination*”, Phys. Rev. D 75 (2007) 063505, arxiv: astro-ph/0701224.

R. Bean, D. Bernat, L. Pogosian, A. Silvestri, M. Trodden, “*Dynamics of linear perturbations in $f(R)$ gravity*”, Phys. Rev. D 75 (2007) 064020, arxiv: astro-ph/0611321.

A. De La Macorra, A. Melchiorri, P. Serra, R. Bean , “*The impact of neutrino masses on the determination of dark energy properties*”, Astroparticle Physics 27 (2007) 406-410, arxiv: astro-ph/0608351.

R. Bean, J. Dunkley, E. Pierpaoli, “*Constraining isocurvature initial conditions with WMAP three-year data*”, Phys. Rev. D 74, (2006) 063503 , arxiv: astro-ph/0606685.

N. Jarosik, C. Barnes, M. R. Greason, R. S. Hill, M. R. Nolta, N. Odegard, J. L. Weiland, R. Bean, C. L. Bennett, O. Doré, M. Halpern, G. Hinshaw, A. Kogut, E. Komatsu, M. Limon, S. S. Meyer, L. Page, D. N. Spergel, G. S. Tucker, E. Wollack, E. L. Wright., “*Three-year Wilkinson Microwave Anisotropy Probe (WMAP) observations: beam profiles, data processing, radiometer characterization and systematic error limits*”, Astrophys.J.Suppl.170:263, 2007, arxiv:astro-ph/0603452.

G. Hinshaw, M. R. Nolta, C. L. Bennett, R. Bean, O. Doré, M. R. Greason, M. Halpern, R. S. Hill, N. Jarosik, A. Kogut, E. Komatsu, M. Limon, N. Odegard, S. S. Meyer, L. Page, H. V. Peiris, D. N. Spergel, G. S. Tucker, L. Verde, J. L. Weiland, E. Wollack, E. L. Wright, “*Three-year Wilkinson Microwave Anisotropy Probe (WMAP) observations: temperature analysis*”, Astrophys.J.Suppl.170:288, 2007, arxiv:astro-ph/0603451.

L. Page, G. Hinshaw, E. Komatsu, M. R. Nolta, D. N. Spergel, C. L. Bennett, C. Barnes, R. Bean, O. Doré, M. Halpern, R. S. Hill, N. Jarosik, A. Kogut, M. Limon, S. S. Meyer, N. Odegard, H. V. Peiris, G. S. Tucker, L. Verde, J. L. Weiland, E. Wollack, E. L. Wright, “*Three year Wilkinson Microwave Anisotropy Probe (WMAP) observations: polarization analysis*”, Astrophys.J.Suppl.170:335, 2007, arxiv:astro-ph/0603450.

D. N. Spergel, R. Bean, O. Doré, M. R. Nolta, C. L. Bennett, G. Hinshaw, N. Jarosik, E. Komatsu, L. Page, H. V. Peiris, L. Verde, C. Barnes, M. Halpern, R. S. Hill, A. Kogut, M. Limon, S. S. Meyer, N. Odegard, G. S. Tucker, J. L. Weiland, E. Wollack, E. L. Wright “*Wilkinson Microwave Anisotropy Probe (WMAP) Three Year Results: Implications for Cosmology*”, Astrophys.J.Suppl.170:377, 2007, arxiv:astro-ph/0603449.

PUBLICATIONS continued

M. R. Francis, R. Bean and A. Kosowsky, “*Impact of Systematic Errors in Sunyaev-Zel’dovich Surveys of Galaxy Clusters*”, JCAP 12 (2005) 001, arxiv:astro-ph/0511161.

R. Bean, S. Carroll and M. Trodden, “*Insights into Dark Energy: Interplay Between Theory and Observation*”, White paper submitted to the NASA Dark Energy Task Force, September 2005, arxiv:astro-ph/0510059.

G. Rocha, R. Trotta, C.J.A.P. Martins, A. Melchiorri, P.P. Avelino, R. Bean, P.T.P. Viana, “*Measuring alpha in the early universe: CMB polarization, reionization and the Fisher matrix analysis*”, MNRAS 352, vol. 1 (2004) 20, arxiv:astro-ph/0309211.

R. Bean, “*First year results from WMAP*”, Matters of Gravity 22 (2003), arxiv:gr-qc/0309065.

R. Bean and O. Doré, “*Probing dark energy perturbations: the dark energy equation of state and speed of sound as measured by WMAP*”, Phys. Rev. D 69 (2004) 083503, arxiv:astro-ph/0307100.

R. Bean, A. Melchiorri and J. Silk, “*Recombining WMAP: constraints on ionizing and resonance radiation at recombination.*”, Phys.Rev. D 68, (2003) 083501, arxiv:astro-ph/0306357

R. Bean and O. Doré, “*Are Chaplygin gases serious contenders to the dark energy throne?*”, Phys. Rev. D 68, (2003) 023515, arxiv:astro-ph/0301308.

R. Bean and J. Magueijo, “*Could supermassive black holes be quintessential primordial black holes?*”, Phys. Rev. D, 66 (2002) 063505, arxiv:astro-ph/0204486.

C.J.A.P. Martins, A. Melchiorri, R. Trotta, R. Bean, G. Rocha, P.P. Avelino and P.T.P. Viana, “*Measuring alpha in the early universe: CMB temperature, large-scale structure, and Fisher matrix analysis*”, Phys. Rev. D 66, (2002) 023505, arxiv:astro-ph/0203149.

R. Bean, S. H. Hansen and A. Melchiorri, “*Constraining the dark universe*”, Nucl. Phys. Proc. Suppl. 110, (2002) 167, arxiv:astro-ph/0201127.

R. Bean and A. Melchiorri, “*Current constraints on the dark energy equation of state*”, Phys. Rev. D 65, (2002) 041302, arxiv:astro-ph/0110472.

R. Bean, “*Perturbation evolution with a non-minimally coupled scalar field*”, Phys. Rev. D. 64, (2001) 123516, arxiv:astro-ph/0104464.

R. Bean, S. H. Hansen and A. Melchiorri, “*Early-universe constraints on a primordial scaling field*”, Phys. Rev. D 64 (2001) 103508, arxiv:astro-ph/0104162.

PUBLICATIONS continued

R. Bean and J. Magueijo, “*Dilaton-derived quintessence scenario leading naturally to the late-time acceleration of the universe*”, Phys. Lett. B 517 (2001) 177, arxiv:astro-ph/0007199.

J. Barrow, R. Bean and J. Magueijo, “*Can the universe escape eternal acceleration?*”, MNRAS 316, vol. 3, (2000) L4,1 arxiv:astro-ph/0004321.

C. Contaldi, R. Bean and J. Magueijo, “*Photographing the wavefunction of the universe*”, Phys. Lett. B 468 (1999) 189, arxiv:astro-ph/9910309.

SELECTED CONFERENCE PROCEEDINGS

R. Bean, “*Primordial initial condition constraints from WMAP*”, Cosmic Frontiers Conference, Durham, July 2006, Astronomical Society of The Pacific Conference Series, Volume 379, p. 3-7.

R. Bean, “*Cosmological implications of the WMAP Cosmic Microwave Background Data*”, SUSY '06, Irvine, June 2006, American Institute of Physics Conference Proceedings, Volume 903, p. 91-96.

R. Bean, “*Cosmology from 3 years of WMAP data*”, Proceedings of the Fundamental Physics With The CMB Workshop, March 2006, New Astronomy Reviews, Volume 50, Issue 11-12, p. 850-853.

R. Bean, “*Probing for dark energy perturbations using the CMB and Large Scale Structure*”, Mitchell Symposium on Observational Cosmology, Texas A&M University, Texas, April 2004, AIP Conference Proceedings, Volume 743. New York: American Institute of Physics, 2004, p. 88-95.

R. Bean, O. Doré, “*Can we hope to detect dark energy perturbations?*”, NOAO workshop on “Observing Dark Energy”, Tuscon, Arizona, March 2004, Astronomical Society of the Pacific, 2005, p. 203.

R. Bean and O. Doré, “*Dark energy alternatives and their speed of sound*”, Where Cosmology and Fundamental Physics Meet, Marseille, France, June 23-26 2003, Frontier Group, p. 208-213.

R. Bean and O. Doré, “*Alternative dark energies with atypical speeds of sound*”, CMBNET II, Science and Parameter Extraction, Oxford, U.K., February 20-21 2003, New Astronomy Reviews, Volume 47, Issue 8-10, p. 747-753.

R. Bean, A. Melchiorri and S.H. Hansen, “*Reining in dark energy theories*” XIIIèmes, Rencontres de Blois, Frontiers of the Universe, Château de Blois, France, June 17-23 2001.

R. Bean, “*Structure formation from coupled quintessence*”, PASCOS 2001, 8th International Symposium on Particles, Strings and Cosmology, Univ. of North Carolina, April 10-15 2001, Rinton Press, 2001, p.377.

R. Bean, J. Magueijo and J. Barrow, “*Is the universe’s acceleration eternal?*”, 9th Marcel Grossmann Meeting, Rome, Italy, June 2000, World Scientific, p. 2031-2040.