

CHARLES L. BENNETT

CURRENT ADDRESS

Dept. of Physics & Astronomy
The Johns Hopkins University
3701 San Martin Drive
Baltimore, MD 21218-2686

CITIZENSHIP

U. S.

POSITIONS

2015 – Bloomberg Distinguished Professor
Appointed jointly between Dept of Physics and Astronomy in School of Arts and Sciences, and as Senior Scientist of Applied Physics Laboratory

2005 – Professor of Physics & Astronomy, Johns Hopkins University

2004 Senior Scientist for Experimental Cosmology, NASA-GSFC

1994 - 2000 Head, Infrared Astrophysics Branch, Goddard

1993 – 1994 Acting Head, Infrared Astrophysics Branch, Goddard
(4/93-8/93 and 4/94-8/94)

1984 – 2004 Astrophysicist, NASA-GSFC

EDUCATION

1978-1984 Massachusetts Institute of Technology, Cambridge, MA
PhD Degree, Department of Physics

1974-1978 University of Maryland, College Park, Maryland
B.S. Physics and Astronomy, cum laude, with High Honors in Astronomy

1976-1978 Carnegie Institution of Washington, Washington, D.C.
Summer Trainee Fellow in the Department of Terrestrial Magnetism
in astrophysical instrumentation

PROFESSIONAL & SPECIALTIES

Cosmology
Astrophysical instrumentation
Infrared, submillimeter, and radio astrophysics

MAJOR PROJECT AND SERVICE RESPONSIBILITIES

2016 - Director, Space@Hopkins

2015 - National Academies of Sciences, Engineering, and Medicine Intelligence Science and Technology Group (ISTEG)

2014 Vice Chair of the NAS Board on Physics and Astronomy

2013 - 2016 NAS Board on Physics and Astronomy

2013- Euclid Consortium member (ESA's Euclid space mission)

2012 NRC Study: "Assessment of a Plan for U.S. Participation in Euclid"

2011-2012 Johns Hopkins University Tenure and Promotion Process Review Committee

2011- Subaru Prime Focus Spectrograph team

2011-2012 WFIRST Science Definition Team

2011 Canadian Inst. for Adv. Research (CIFAR) Cosmology/Gravity review committee

2011 Smithsonian Astrophysical Observatory Visiting Committee

2011 Johns Hopkins Distinguished University Awards Committee

2010- Co-PI, Cosmology Large Angular Scale Surveyor (CLASS)

2008-2010	Astro2010 Decadal Survey, SSB Liaison
2008-2014	Co-I Primordial Inflation Polarization Exploration (PIPER)
2008-2009	Joint Dark Energy Mission (JDEM) Science Coordination Group
2007-2008	Science Organizing Committee for STScI Dark Energy meeting
2006-2009	JDEM/ADEPT Mission Concept P.I.
2006-2007	NRC Study: "NASA Astrophysics Performance Assessment (NAPA)"
2006-2010	Co-Chair, NAS Committee on Astronomy and Astrophysics
2006-2010	NAS Space Studies Board
2005-2010	NAS Committee on Astronomy and Astrophysics
2005	NASA Universe Strategic Roadmap Committee
2004-2005	Co-Chair Joint Dark Energy Mission (JDEM) Science Definition Team
1996-date	P.I. of the Wilkinson Microwave Anisotropy Probe (WMAP) mission
2003-date	Co-I of the Legacy Archive for Microwave Background Data Analysis
2004	Collaborator, Big Bang Observer vision mission study (NASA)
2004	Co-I Einstein Inflation Probe mission concept study (NASA)
2001-2002	Scientific Organizing Committee for "The Emergence of Cosmic Structure" astrophysics conference
1985-1996	COBE Science Working Group
1987-1996	Deputy P.I., Differential Microwave Radiometers (DMR) instrument on Cosmic Background Explorer (COBE) Leader of COBE DMR software effort
1993-1995	NASA Infrared, Submm, & Radio Mission Operation Working Group
1994	US/Russia Joint Working Group on Astron. and Astrophysics: Technical Expert
1994-1995	NASA Infrared/Submillimeter/Radio Management Operations Working Group
1994-1995	Scientific Organizing Committee for "Cosmic Abundances" astrophysics conference
1993-1994	Scientific Organizing Committee for "Dark Matter" astrophysics conference
1991-1992	Scientific Organizing Committee for "Back to the Galaxy" astrophysics conference
1989-1990	Scientific Organizing Committee for "After the First Three Minutes" astrophysics conference

AWARDS & HONORS

2017	Breakthrough Prize in Fundamental Physics
2017	Institute of Physics (IOP) Isaac Newton Medal and Prize
2016	Committee on Space Research COSPAR Award
2015	Bloomberg Distinguished Professor
2015	Caterina Tomassoni and Felice Pietro Chisesi Prize
2014	University of Maryland Astronomy Department "Distinguished Alumnus of the Year"
2013	Karl G. Jansky Prize Lecturership
2012	Gruber Cosmology Prize to "Charles Bennett and the WMAP Team"
2011	Alumni Centennial Professor (Johns Hopkins University Chair)
2011	Gilman Scholar (Johns Hopkins University)
2010	Shaw Prize
2010	University of Maryland Alumni Hall of Fame
2009	Comstock Prize in Physics
2006	Harvey Prize
2006	Gruber Foundation Cosmology Prize (as a member of the COBE Team)
2005	Elected to the National Academy of Sciences
2005	Henry Draper Medal, National Academy of Sciences
2005	Rotary National Award for Space Achievement (RNASA) Mid Career Stellar Award
2004	NASA Exceptional Scientific Achievement Medal for WMAP
2004	NASA Group Achievement Award to WMAP Science Team
2004	Elected to the American Academy of Arts and Sciences
2004	Rave Award nomination in "scientist" category, Wired Magazine

2003 Science Magazine "Breakthrough of the Year" for WMAP/Sloan proof of Dark Energy
 2003 Fellow, American Association for the Advancement of Science (AAAS)
 2003 NASA/GSFC WMAP Cosmology Outreach Team
 2003 NASA Performance Award
 2003 NASA Outstanding Leadership Medal for the development and success of WMAP
 2003 John C. Lindsay Memorial Award for Space Science
 2003 University of Maryland Physics Department "Distinguished Alumnus of the Year"
 2002 NASA/GSFC Group Achievement Award for MAP
 2002 NASA/GSFC Center of Excellence Group Achievement Award for MAP
 2002 Senior Scientist for Experimental Cosmology
 2002 NASA/GSFC Performance Award
 2002 ISI Highly Cited Researchers
 2002 NASA/GSFC Performance Award
 2001 Popular Science "Best of What's New" Award in Aviation and Space for WMAP
 2000 Institutional Support "Vision" Award for Spacecraft Operations Risk Assessment
 1999 Fellow, American Physical Society
 1999 NASA/GSFC Leadership Award
 1998 NASA/GSFC Performance Award
 1997 NASA MIDEX Group Award
 1996 NASA/GSFC Performance Award
 1996 GSFC Group Award for MAP Proposal
 1994 NASA Outstanding Performance
 1992 NASA Exceptional Scientific Achievement Medal for COBE
 1990 NASA Group Achievement Award for COBE
 1989 NASA/GSFC Performance Award
 1988 GSFC Group Achievement Award for COBE
 1985 NASA Outstanding Performance

SELECTED INVITED LECTURES

2018 Tensions in the Λ CDM Model, Mainz, Germany
 2018 Cosmology in the Andes 2018, Santiago, Chile
 2018 "LP@60" Princeton University in honor of Lyman Page, Princeton, NJ
 2017 Breakthrough Symposium, Stanford University, Palo Alto, CA
 2017 Institute of Physics (IOP) Isaac Newton Award and Prize lecture, London, UK
 2017 "Nedfest" UCLA in honor of Ned Wright, Los Angeles, CA
 2017 Fire or Ice, Baltimore Speaker Series, Baltimore, MD
 2017 NASA Goddard Space Flight Center Astrophysics Colloquium, Greenbelt, MD
 2016 NASA Goddard Space Flight Center, "From Big Bang to Black Holes", Greenbelt, MD
 2016 MIT Astrophysics Colloquium, Cambridge, MA
 2016 Radio Astronomy Seminar Series, Northwestern University, Evanston, IL
 2016 Theoretical and Experimental Frontiers of Fundamental Interactions, Baltimore, MD
 2016 Space Tech Innovation, New York, NY
 2016 Gravity Group Seminar, Physics Department, Princeton University, Princeton, NJ
 2015 Sapienza University of Rome, Rome, Italy
 2014 Mid-Atlantic Senior Physicists Group (MASPG), Amer. Phys. Soc., College Park, MD
 2014 University of Helsinki & Helsinki Institute of Physics, Helsinki, Finland
 2014 Astronomy Colloquium, University of Maryland, College Park, MD
 2014 Cosmic Distance Scale Workshop, Space Telescope Science Institute, Baltimore, MD
 2014 Karl Jansky Lecture, National Radio Astronomy Observatory, Charlottesville, Virginia
 2014 Karl Jansky Lecture, National Radio Astronomy Observatory, Socorro, New Mexico
 2013 "The Future of Physics Beyond the Standard Model", Sheffield, UK
 2013 Ben Gurion University Colloquium, Be'er Sheva, Israel
 2013 Hebrew University Colloquium, Jerusalem, Israel
 2012 Tel Aviv University Colloquium, Tel Aviv, Israel
 2012 Astro-instrumentation Meeting, Santiago, Chile

2012 Gruber Lecture, IAU General Assembly, Beijing, China
2012 13th Marcel Grossmann Meeting on General Relativity, Stockholm, Sweden
2012 National Air and Space Museum public lecture, Washington, DC
2011 Centro de Astrofísica da Universidade do Porto, Porto, Portugal
2011 Applied Physics Laboratory, Laurel, MD
2010 University of Hong Kong
2010 Universidad de Chile, Santiago
2010 Pontificia Universidad Católica de Chile
2010 Physics Colloquium, Northwestern University, Evanston, IL
2010 Gunnerus Lecture, 250th Anniv. Royal Norwegian Soc. Science & Letters, Trondheim, Norway
2010 Norwegian University of Science and Technology, Trondheim, Norway
2009 Neff Public Lecture, University of Kansas, Manhattan, Kansas
2009 Physics Colloquium, University of Kansas, Manhattan, Kansas
2009 Smithsonian Cosmology Panel public lecture, Washington, DC
2009 PITTCON, Chicago, IL
2008 Brookhaven National Laboratory, Upton, NY
2008 Cosmology public lecture, Chevrei Tzedek, Baltimore, MD
2008 Singapore Group, Baltimore, MD
2007 NASA Headquarters, Washington, DC
2007 High Energy Physics Advisory Panel, Washington, DC
2007 National Academy of Sciences, Beyond Einstein Program Assess. Comm., Washington, DC
2007 Harvey Prize address, Israel Institute of Technology (the Technion), Haifa, Israel
2007 Physics Dept Colloquium, Israel Institute of Technology (the Technion), Haifa, Israel
2007 Astrophysics Seminar, Israel Institute of Technology (the Technion), Haifa, Israel
2006 "Beyond the Standard Model" meeting, Galapagos Islands, Ecuador
2006 Dept of Physics and Astronomy Colloquium, Johns Hopkins University, Baltimore, MD
2004 DARK2004, Astro & Particle Physics Conference (DARK 2004), College Station, TX
2004 Public Lecture (Associated with DARK 2004), Texas A&M, College Station
2004 American Center of Physics, Physics Seniors, College Park, MD
2004 COSPAR International Space Congress Meeting, Paris, France
2004 Beyond Einstein meeting, Stanford, CA
2004 Plenary Speaker, APS "April" Meeting, Denver, CO
2004 AAAS Annual Meeting, Seattle, WA
2003 Georgetown University, Washington, DC
2003 Penn State University Colloquium, State College, PA
2003 IAU Symp. On "Maps of the Cosmos", Sydney, Australia
2003 Carnegie Institution of Washington, DTM, Washington, DC
2003 Space Telescope Science Institute, Baltimore, MD
2003 Scientific Colloquium, Fermilab, Batavia, IL
2003 Space Studies Board, National Academy of Sciences, Washington DC
2003 Physics Department Colloquium, University of Maryland, College Park, MD
2003 Peebles-Wilkinson Seminar, Princeton, NJ
2003 Goddard Science Colloquium, Greenbelt, MD
2001 National Radio Astronomy Observatory, Green Bank, WV
2000 Space Telescope Science Institute, Baltimore, MD
1997 American Astronomical Society, Toronto, Canada
1997 Space Technology & Applications International Forum, Albuquerque, NM
1997 M.I.T. Physics Colloquium, Cambridge, MA
1996 American Association for the Advancement of Science, Baltimore, MD
1996 University of Maryland Astronomy Colloquium, College Park, MD
1995 M.I.T. Astrophysics Colloquium, Cambridge, MA
1994 Int'l Conf on Neutrino Physics and Astrophysics, Eilat, Israel
1994 Space Studies Board, Greenbelt, MD
1993 Univ of Maryland conference on General Relativity, College Park, MD
1993 Smithsonian Institution, Washington, DC, 1993
1993 National Academy of Sciences, "Frontiers of Science", Irvine, CA

1993 STScl Conference on "Galactic Halos", Baltimore, MD
1993 John Hopkins Univ Physics Department Colloquium, Baltimore, MD
1992 COSPAR International Space Congress Meeting, Washington, DC
1992 International Scientific Film Festival, Quebec, Canada
1992 "Evolution of Galaxies and Their Environment", Grand Tetons, WY
1992 M.I.T. Astrophysics Colloquium, Cambridge, MA
1992 American Astronomical Society, Pheonix, AZ
1992 Carnegie Institution, DTM, Washington, DC
1992 "The Confines of the Universe" Summer School, El Escorial, Spain
1990 Johns Hopkins Univ Center for Space Astrophysics, Baltimore, MD
1989 Carnegie Institution, DTM, Washington, DC

PATENTS

Bennett, C.L., Zeng, L., Wollack, E.J., Chuss, D.T., "A Smooth-Wall Feed", filed 2010; United States Patent number 9166297 granted in 2015.

Bennett, C.L., Zeng, L., Wollack, E.J., Chuss, D.T., "Smooth-Wall Feedhorn", filed 2015; United States Patent number 9373891 granted in 2016.

AFFILIATIONS

National Academy of Sciences
American Academy of Arts and Sciences
American Association for the Advancement of Science
American Astronomical Society
American Institute of Physics
American Physical Society
International Astronomical Union
Sigma Xi

PUBLICATIONS: REFEREED PAPERS

1. C. L. Bennett, C. R. Lawrence, & B. F. Burke, "A Search for Neutral Hydrogen Absorption in the Double Quasar 0957+561," *Nature*, 283, 175, 1980.
2. D. H. Roberts, A. E. E. Rogers, B. R. Allen, C. L. Bennett, B. F. Burke, P. E. Greenfield, C. R. Lawrence, & T. A. Clark, "Radio Interferometric Detection of a Travelling Ionospheric Disturbance Excited by the Explosion of Mount St. Helens," *Journal of Geophysical Research*, 87, 6302, 1982.
3. C. R. Lawrence, C. L. Bennett, J. A. Garcia-Barreto, P. E. Greenfield & B. F. Burke, "5 GHz Observations of Sources in the Arecibo 611 MHz Survey," *Astrophysical Journal Supplement*, 51, 67, 1983.
4. C. L. Bennett, C. R. Lawrence, J. A. Garcia-Barreto, J. N. Hewitt, & B. F. Burke, "VLA Source Counts at 6-cm Wavelength," *Nature*, 301, 686, 1983.
5. C. R. Lawrence, D. P. Schneider, M. Schmidt, C. L. Bennett, J. N. Hewitt, B. F. Burke, E. L. Turner, & J. E. Gunn, "Discovery of a New Gravitational Lens System," *Science*, 223, 46, 1984.
6. C. L. Bennett, C. R. Lawrence, & B. F. Burke, "5 GHz Source Variability and the Gain of the NRAO 300 Foot Telescope," *Astrophysical Journal Supplement*, 54, 211, 1984.
7. C. R. Lawrence, C. L. Bennett, J. N. Hewitt, & B. F. Burke, "5 Gigahertz Structure and Optical Identifications of Weak Extragalactic Radio Sources," *Astrophysical Journal Letters*, 278, L95, 1984.
8. C. L. Bennett, C. R. Lawrence, & B. F. Burke, "Source Counts at 5 Gigahertz from the MG Survey," *Astrophysical Journal*, 299, 373, 1985.
9. C. L. Bennett, C. R. Lawrence, B. F. Burke, J. N. Hewitt, & J. Mahoney, "The MIT-Green Bank (MG) 5 GHz Survey," *Astrophysical Journal Supplement Series*, 61, 1, 1986.
10. C. R. Lawrence, C. L. Bennett, J. N. Hewitt, G. I. Langston, B. F. Burke, & K. C. Turner, "5 GHz Radio Structure and Optical Identifications of Sources from the MG Survey. II. Maps and Finding Charts," *Astrophysical Journal Supplement*, 61, 105, 1986.
11. J. N. Hewitt, E. L. Turner, C. R. Lawrence, D. P. Schneider, J. E. Gunn, C. L. Bennett, B. F. Burke, J. H. Mahoney, G. I. Langston, M. Schmidt, J. B. Oke, & J. G. Hoessel, "The Triple Radio Source 0023+171: A Candidate for a Dark Gravitational Lens," *Astrophysical Journal*, 321, 706, 1987.
12. S. J. Petuchowski & C. L. Bennett, "Detection of the $2_{20} \rightarrow 1_{21}$ Transition of HDO in Orion A: Evidence for Dense Clumped Gas in the Hot Core and Spike Components," *Astrophysical Journal*, 326, 376, 1988.
13. M. A. Toral, R. B. Ratliff, M. C. Lecha, J. G. Maruschak, C. L. Bennett, & G. F. Smoot, "Measurements of Very Low-Sidelobe Level Horn Antennas for the Cosmic Background Explorer (COBE) Satellite," *IEEE Antennas and Propagation*, 37, 171, 1989.
14. Kogut, G. F. Smoot, C. L. Bennett, & S. J. Petuchowski, "Formaldehyde Absorption Towards W51," *Astrophysical Journal*, 346, 763, 1989.
15. Kogut, S. J. Petuchowski, C. L. Bennett, & G. F. Smoot, "*In Situ* Measurement of the Cosmic Microwave Background Temperature at a Distance of 7.5 Kiloparsecs," *Astrophysical Journal Letters*, 348, L45, 1990.
16. G. Smoot, C. Bennett, R. Weber, J. Maruschak, R. Ratliff, M. Janssen, J. Chitwood, L. Hilliard, M. Lecha, R. Mills, R. Patschke, C. Richards, C. Backus, J. Mather, M. Hauser, R. Weiss, D. Wilkinson, S.

- Gulkis, N. Boggess, E. Cheng, T. Kelsall, P. Lubin, S. Meyer, H. Moseley, T. Murdock, R. Shafer, R. Silverberg, & E. Wright, "COBE Differential Microwave Radiometers (DMR): Instrument Design and Implementation," *Astrophysical Journal*, 360, 685, 1990.
17. J. C. Mather, E. S. Cheng, R. E. Eplee, R. B. Isaacman, S. S. Meyer, R. A. Shafer, R. Weiss, E. L. Wright, C. L. Bennett, N. W. Boggess, E. Dwek, S. G. Gulkis, M. G. Hauser, M. Janssen, T. Kelsall, P. M. Lubin, S. H. Moseley, Jr., T. L. Murdock, R. F. Silverberg, G. F. Smoot, & D. T. Wilkinson, "A Preliminary Measurement of the Cosmic Microwave Background Spectrum by the Cosmic Background Explorer (COBE) Satellite," *Astrophysical Journal Letters*, 354, L37, 1990.
 18. S. J. Petuchowski and C. L. Bennett, "A Search for Vibrationally Excited H₂O at 68 GHz," *Astrophysical Journal*, 367, 168, 1990.
 19. Smoot, G. F., Bennett, C. L., Kogut, A., Aymon, J., Backus, C., De Amici, G., Galuk, K., Jackson, P. D., Keegstra, P., Rokke, L., Tenorio, L., Torres, S., Gulkis, S., Hauser, M. G., Janssen, M., Mather, J. C., Weiss, R., Wilkinson, D. T., Wright, E. L., Boggess, N. W., Cheng, E. S., Kelsall, T., Lubin, P., Meyer, S., Moseley, S. H., Murdock, T. L., Shafer, R., & Silverberg, R. F., "Preliminary Results from the COBE Differential Microwave Radiometers: Large-Angular-Scale Isotropy of the Cosmic Microwave Background," *Astrophysical Journal Letters*, 371, L1, 1991.
 20. Wright, E. L., Mather, J. C., Bennett, C. L., Cheng, E. S., Shafer, R. A., Fixsen, D. J., Eplee, R. E., Jr., Isaacman, R. B., Read, S. M., Boggess, N. W., Gulkis, S., Hauser, M. G., Janssen, M., Kelsall, T., Lubin, P. L., Moseley, S. H., Jr., Meyer, S. S., Murdock, T. L., Silverberg, R. F., Smoot, G. F., Weiss, R., & Wilkinson, D. T., "Preliminary Spectral Observations of the Galaxy with a 7° Beam by the Cosmic Background Explorer (COBE)," *Astrophysical Journal*, 381, 200, 1991.
 21. Petuchowski, S. J. & Bennett, C. L., "SO in Starburst Galaxies," *Astrophysical Journal*, 391, 137, 1991.
 22. Bennett, C. L., Smoot, G. F., Janssen, M., Gulkis, S., Kogut, A., Hinshaw, G., Backus, C., Hauser, M. G., Mather, J. C., Rokke, L., Tenorio, L., Weiss, R., Wilkinson, D. T., Wright, E. L., De Amici, G., Boggess, N. W., Cheng, E. S., Jackson, P. D., Keegstra, P., Kelsall, T., Kummerer, R., Lineweaver, C., Moseley, S. H., Murdock, T. L., Santana, J., Shafer, R. A., & Silverberg, R. F., "COBE Differential Microwave Radiometers: Calibration Techniques," *Astrophysical Journal*, 391, 466, 1991.
 23. Boggess, N. W., Mather, J. C., Weiss, R., Bennett, C. L., Cheng, E. S., Gulkis, S., Hauser, M. G., Janssen, M., A., Kelsall, T., Lubin, P. M., Meyer, S. S., Moseley, S. H., Murdock, T. L., Shafer, R. A., Silverberg, R. F., Smoot, G. F., Wilkinson, D. T., & Wright, E. L. "The COBE Mission: Its Design and Performance Two Years After Launch," *Astrophysical Journal*, 397, 420, 1992.
 24. Petuchowski, S. J. & Bennett, C. L. "Galactic Fine Structure Lines: Morphologies of the Warm Ionized Interstellar Medium," *Astrophysical Journal*, 405, 591, 1993.
 25. Smoot, G. F., Bennett, C. L., Kogut, A., Wright, E. L., Aymon, J., Boggess, N. W., Cheng, E. S., De Amici, G., Gulkis, S., Hauser, M. G., Hinshaw, G., Lineweaver, C., Loewenstein, K., Jackson, P. D., Janssen, M., Kaita, E., Kelsall, T., Keegstra, P., Lubin, P., Mather, J. C., Meyer, S. S., Moseley, S. H., Murdock, T. L., Rokke, L., Silverberg, R. F., Tenorio, L., Weiss, R., & Wilkinson, D. T. "Structure in the COBE DMR First Year Maps," *Astrophysical Journal Letters*, 396, L1, 1992.
 26. Bennett, C. L., Smoot, G. F., Hinshaw, G., Wright, E. L., Kogut, A., De Amici, G., Meyer, S. S., Weiss, R., Wilkinson, D. T., Gulkis, S., Janssen, M., Boggess, N. W., Cheng, E. S., Hauser, M. G., Kelsall, T., Mather, J. C., Moseley, S. H., Jr., Murdock, T. L., & Silverberg, R. F., "Preliminary Separation of Galactic and Cosmic Microwave Emission for the COBE-DMR," *Astrophysical Journal Letters*, 396, L5, 1992.
 27. Wright, E. L., Meyer, S. S., Bennett, C. L., Boggess, N. W., Cheng, E. S., Hauser, M. G., Kogut, A., Lineweaver, C., Mather, J. C., Smoot, G. F., Weiss, R., Gulkis, S., Hinshaw, G., Janssen, M., Kelsall, T., Lubin, P. M., Moseley, S. H., Jr., Murdock, T. L., Shafer, R. A., Silverberg, R. F., & Wilkinson, D. T.,

"Interpretation of the COBE Anisotropy Detected by the COBE DMR," *Astrophysical Journal Letters*, 396, L13, 1992.

28. Kogut, A., Smoot, G. F., Bennett, C. L., Wright, E. L., Aymon, J., De Amici, G., Hinshaw, G., Jackson, P. D., Kaita, E., Keegstra, P., Lineweaver, C., Loewenstein, K., Rokke, L., Tenorio, L., Boggess, N. W., Cheng, E. S., Gulkis, S., Hauser, M. G., Janssen, J. A., Kelsall, T., Mather, J. C., Meyer, S., Moseley, S. H., Murdock, T. L., Shafer, R. A., Silverberg, R. F., Weiss, R., & Wilkinson, D. T., "COBE Differential Microwave Radiometers (DMR): Preliminary Systematic Error Analysis," *Astrophysical Journal*, 401, 1, 1992.
29. Bennett, C. L., Boggess, N. W., Cheng, E. S., Hauser, M. G., Kelsall, T., Mather, J. C., Moseley, S. H., Jr., Murdock, T. L., Shafer, R. A., Silverberg, R. A., Smoot, G. F., Weiss, R., & Wright, E. L., "Scientific Results from COBE," *Advances in Space Research*, 13, (12)409, 1993.
30. Wright, E. L., Smoot, G. S., Kogut, A., Hinshaw, G., Tenorio, L., Lineweaver, C., Bennett, C. L., & Lubin, P. M., "Comments on the Statistical Analysis of Excess Variance in the COBE DMR Maps," *Astrophysical Journal*, 420, 1, 1993.
31. Kogut, A., Lineweaver, C., Smoot, G. F., Bennett, C. L., Banday, A., Boggess, N. W., Cheng, E. S., De Amici, G., Fixsen, D. J., Hinshaw, G., Jackson, P. D., Janssen, M., Keegstra, P., Loewenstein, K., Lubin, P., Mather, J. C., Tenorio, L., Weiss, R., Wilkinson, D. T., & Wright, E. L., "Dipole Anisotropy in the COBE-DMR First-Year Sky Maps," *Astrophysical Journal*, 419, 1, 1993.
32. Bennett, C. L., Hinshaw, G., Banday, A., Kogut, A., Wright, E. L., Loewenstein, K., & Cheng, E. S., "Noncosmological Signal Contributions to the COBE DMR Anisotropy Maps," *Astrophysical Journal Letters*, 414, L77, 1993.
33. Mather, J. C., Cheng, E. S., Cottingham, D. A., Eplee, R. E., Jr., Fixsen, D. J., Hewagama, T., Isaacman, R. B., Jensen, K. A., Meyer, S. S., Noerdlinger, P. D., Read, S. M., Rosen, L. P., Shafer, R. A., Wright, E. L., Bennett, C. L., Boggess, N. W., Hauser, M. G., Kelsall, T., Moseley, S. H., Jr., Silverberg, R. F., Smoot, G. F., Weiss, R., & Wilkinson, D. T. "Measurement of the Cosmic Microwave Background Spectrum by the COBE FIRAS," *Astrophysical Journal*, 420, 439, 1994.
34. Fixsen, D. J., Cheng, E. S., Cottingham, D. A., Eplee, R. E., Jr., Isaacman, R. B., Mather, J. C., Meyer, S. S., Noerdlinger, P. D., Shafer, R. A., Weiss, R., Wright, E. L., Bennett, C. L., Boggess, N. W., Kelsall, T., Moseley, S. H., Jr., Silverberg, R. F., Smoot, G. F., & Wilkinson, D. T. "Cosmic Microwave Background Dipole Spectrum Measured by the COBE FIRAS," *Astrophysical Journal*, 420, 445, 1994.
35. Fixsen, D. J., Cheng, E. S., Cottingham, D. A., Eplee, R. E., Jr., Hewagama, T., Isaacman, R. B., Jensen, K. A., Mather, J. C., Massa, D. L., Meyer, S. S., Noerdlinger, P. D., Read, S. M., Rosen, L. P., Shafer, R. A., Trenholme, A. R., Weiss, R., Bennett, C. L., Boggess, N. W., Wilkinson, D. T., & Wright, E. L. "Calibration of the Far Infrared Absolute Spectrophotometer (FIRAS) on the Cosmic Background Explorer (COBE)," *Astrophysical Journal*, 420, 457, 1994.
36. Wright, E. L., Mather, J. C., Fixsen, D. J., Kogut, A., Shafer, R. A., Bennett, C. L., Boggess, N. W., Cheng, E. S., Silverberg, R. F., Smoot, G. F., & Weiss, R. "Interpretation of the COBE FIRAS Spectrum," *Astrophysical Journal*, 420, 450, 1994.
37. Sodroski, T. J., Hauser, M. G., Dwek, E., Kelsall, T., Moseley, S. H., Silverberg, R. F., Boggess, N., Bennett, C., Odegard, N., Franz, B., & Weiland, J. L., "Large-Scale Characteristics of Interstellar Dust from COBE DIRBE Observations," *Astrophysical Journal*, 428, 638, 1994.
38. Bennett, C. L., Fixsen, D. J., Mather, J. C., Moseley, S. H., Wright, E. L., Eplee, R. E., Jr., Gales, J., Hewagama, T., Isaacman, R. B., Shafer, R. A., & Turpie, K., "Morphology of the Interstellar Cooling Lines Detected by COBE," *Astrophysical Journal*, 434, 587, 1994.

39. Petuchowski, S. P., Bennett, C. L., Haas, M. R., Erickson, E. F., Lord, S. D., Rubin, R. H., Colgan, S. W. J., & Hollenbach, D. J., "The [N II] 205 Micron Line in M82: The Warm Ionized Medium," *Astrophysical Journal Letters*, 427, L17, 1994.
40. Hinshaw, G., Kogut, A., Gorski, K. M., Banday, A. J., Bennett, C. L., Lineweaver, C., Lubin, P., Smoot, G. F., & Wright, E. L., "Limits on Three-Point Correlations in the COBE DMR First Year Anisotropy Maps," *Astrophysical Journal*, 431, 1, 1994.
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