

Department of Physics, Wright Laboratory
Yale University
PO Box 208120, 266 Whitney Ave
New Haven, CT 06520-8120, USA

Office: +1-203-432-3378
Cell: +1-475-201-2702
karsten.heeger@yale.edu
<http://heegerlab.yale.edu>

Appointments

- 2013 – Present **Director**, Wright Laboratory, Yale University
<http://wlab.yale.edu>
- 2013 – Present **Professor of Physics**, Yale University
<http://heegerlab.yale.edu>
- 2012 – 2013 **Professor of Physics**, University of Wisconsin, Madison
- 2009 – 2012 **Associate Professor of Physics** (with tenure)
University of Wisconsin, Madison
- 2006 – 2009 **Assistant Professor of Physics**
University of Wisconsin, Madison
- 2002 – 2006 **Chamberlain Fellow, Physicist Scientist**
Lawrence Berkeley National Laboratory, Physics Division
- 1996 – 2002 **Research Assistant**
University of Washington, Seattle
Center for Experimental Nuclear Physics and Astrophysics

Affiliations

- Since 2016 **Associate Member**, TD Lee Institute (TDLI), Shanghai
- Since 2008 **Senior Scientist**, Institute for Physics and Mathematics of the Universe (IPMU),
Tokyo, Japan
- Since 2006 **Guest Scientist**, Lawrence Berkeley National Laboratory (LBNL),
Nuclear Science Division, Berkeley, CA, USA

Professional Development

- 2010 **Masters Certificate in Project Management (MCPM)**
University of Wisconsin, School of Business

Education & Degrees

- 2002 **Ph.D. in Physics**
“Model-Independent Measurement of the Neutral Current Interaction Rate of Solar ^8B Neutrinos with Deuterium in the Sudbury Neutrino Observatory”
University of Washington, Seattle, Washington, USA
Thesis Advisor: Prof. R.G.H. Robertson
- 1999 **Master of Arts (M.A.)**
Oxford University, Oxford, England
- 1996 **Master of Science (M.Sc.) in Physics**
University of Washington, Seattle, Washington, USA
- 1995 **Bachelor of Arts (B.A. Hons.) in Physics**
Oxford University, England

Research Projects & Scientific Collaborations

Since 2011 **PROSPECT** (A Precision Oscillation and Spectrum Experiment),
<http://prospect.yale.edu>

- PI and Co-spokesperson of PROSPECT
- Leading collaboration of ~ 70 people for a search for short-baseline sterile neutrino oscillations and a high-precision measurement of the reactor antineutrino spectrum at the High Flux Isotope Reactor (HFIR) at Oak Ridge National Laboratory (ORNL)
- Coordinated the R&D and technical development of the project as well as the assembly at the Yale Wright Laboratory and installation at ORNL
- Overseeing the scientific program of the collaboration including publication plan, analysis strategy, and operations planning

Since 2004 **Daya Bay** (θ_{13} Reactor Antineutrino Experiment)

- Elected Executive Board Member (2007-2017)
- US Antineutrino Detector Manager (2006-2017)
- Institutional Representative (2006-Present)
- Reactor flux working group co-convenor (2011-2015)
- Nominated as Daya Bay Co-Spokesperson (Dec 2010)
- Internal reviewer for first Daya Bay physics publications (2011-2012)
- Led and supervised group of up to 22 technical and scientific staff at the University of Wisconsin and Physical Sciences Laboratory for the construction of the Daya Bay experiment
- Responsible for the overall design, assembly, and commissioning of the US contribution to the Daya Bay Antineutrino Detectors (\$11.5M)
- Responsible for the design and fabrication of the detectors' target vessels and a system for measuring the detectors' target mass
- Coordinates and manages the largest US university contribution to the Daya Bay reactor neutrino experiment

Since 2005 **CUORE** (Cryogenic Underground Observatory for Rare Events)
<http://cuore.yale.edu>

- Executive Board, Member (2014-Present)
- Collaboration Council, Chair (2012-2014)
- Collaboration Council, Member (2009-Present)
- Technical Coordinator Board, Member (2009-Present)
- Data Vetting Committee, Chair (2009-2012)
- Scientific lead for the Detector Calibration Subsystem (2006-Present)
- Responsible for the design, development and construction of a low-temperature and low-background, energy calibration system for the CUORE bolometric double beta decay experiment

Research & Development

Since 2015 **Project 8**, <http://www.project8.org>

- Institutional representative for R&D on Project 8 neutrino mass experiment.
- Leading activities of Yale group on Project 8 simulations and slow monitoring.

Completed Scientific Projects

2010-2015 **DM-Ice** (Dark Matter Search in Ice at the South Pole)
<http://dm-ice.yale.edu/>

- Collaborator on the DM-Ice project
- Development of ultralow-background NaI crystals for DM-Ice
- Commissioned two NaI(Tl) detectors at the South Pole (Jan-Feb 2011)
- Helped develop and build two prototype NaI dark matter detectors for deployment 2.5km deep inside the Antarctic Ice at the South Pole (May-Dec 2010).

2002–2010 **KamLAND** (Kamioka Liquid Scintillator Antineutrino Detector)

- Scientific lead and system manager for the KamLAND full-volume (4π) calibration system.
- Responsible for the design, construction, and operation of this calibration system which led to an improvement in KamLAND's fiducial volume uncertainty from 4.7% to 1.8% with a comparable improvement in the uncertainty of the neutrino mass splitting Δm_{12}
- Participated in the analysis of first KamLAND data for the discovery of reactor antineutrino disappearance

1996–2004 **SNO** (Sudbury Neutrino Observatory)

- SNO Analysis Coordination Committee Member (2001-2003)
- Performed a model-independent analysis of the neutral-current interaction rate with Ph.D. thesis advisor R.G.H. Robertson

Other Projects

Since 2013 **Yale Wright Laboratory**

- Led the transformation of the Wright Nuclear Structure Laboratory (WNSL) into the Yale Wright Laboratory with a broad program in nuclear, particle, and astrophysics. <http://wlab.yale.edu>
- Developed the scientific and programmatic vision for the new Yale Wright Laboratory and oversee its realization
- Produced 2 videos on the transformation of the Yale Wright Laboratory and the student experiences at Wright Laboratory
- Developed the identity and communication materials for Wright Lab including brochures, websites, and handouts
- Coordinated tours and several events for the public and the Yale community

2013-2015 **Wright Nuclear Structure Laboratory Accelerator Decommissioning**

- Led the decommissioning of the nuclear tandem accelerator in the Wright Nuclear Structure Laboratory.
- Coordinated between the Department of Energy and Yale University the decommissioning of the accelerator systems, the disposition of equipment, and the remediation of the facility

Awards, Honors, and Fellowships

2016

Breakthrough Prize in Fundamental Physics

Co-recipient for work on SNO, KamLAND, and Daya Bay experiments

<https://breakthroughprize.org/Laureates/1>

"For the fundamental discovery and exploration of neutrino oscillations, revealing a new frontier beyond, and possibly far beyond, the standard model of particle physics"

- 2013 **APS Fellowship**
American Physical Society, nominated by DNP
"For his contributions to the highest impact experiments in neutrino physics, especially for the major roles he played in the Daya Bay and KamLAND experiments"
- 2012 **Kavli Fellow**, National Academy of Sciences,
24th Annual Kavli Frontiers of Science Symposium
- 2011–2012 **H.I. Romnes Faculty Fellowship**, University of Wisconsin
<http://www.grad.wisc.edu/research/researchfunding/nkr/warfnamed.html>
- 2009–2011 **Alfred P. Sloan Research Fellow**,
<http://www.sloan.org/fellowships/page/19>
- 2008 **Outstanding Junior Investigator Award**, DOE Office of High Energy Physics.
"Precision Studies of the Reactor Antineutrino Spectrum and the Search for θ_{13} at Daya Bay"
http://www.er.doe.gov/hep/files/pdfs/OJI_ALL_Awards.pdf
- 2008 **Outstanding Junior Investigator Award**, DOE Office of Nuclear Physics.
"Investigation of Neutrino Properties with Bolometric Detectors"
<http://www.sc.doe.gov/np/program/oji.html>

Department of Energy (DOE) Outstanding Junior Investigator Awards in both High Energy and Nuclear Physics.
- 2004 **Michelson Postdoctoral Prize Lectureship**
Case Western Reserve University
<http://www.phys.cwru.edu/events/mppl-prior.php>
- 2003 **APS Dissertation Award in Nuclear Physics**
American Physical Society, Division of Nuclear Physics
<http://www.aps.org/praw/dissnucl/03winner.html>
"For his role in generating and analysis of the data from the Sudbury Neutrino Observatory, and the resulting resolution of the solar neutrino problem."
- 2002-2005 **Chamberlain Fellowship**
Lawrence Berkeley National Laboratory, Physics Division, USA
- 2001 **Member of the Institute of Physics (MInstP)**
Institute of Physics (IOP), London, UK
- 2000 **Mellam Fellowship**
University of Washington, Seattle, Washington, USA
<http://www.mellam.org>
"...selected for this fellowship because of outstanding contributions to research."
- 2000 **Dahlstrom Prize**
University of Washington, Seattle, Washington, USA
"Prize to an outstanding graduate student in experimental physics who has passed the General Exam."
- 1996 **Sebastian Karrer Memorial Scholarship**

University of Washington, Seattle, Washington, USA
“The Karrer Memorial Scholarship ... is given to an outstanding student in the first year of graduate study.”

- 1994 – 1995 **Academic Scholarship**
Oxford University, College St. Edmund Hall, England
- 1993 **Academic Exhibition and Bursary**
Oxford University, College St. Edmund Hall, England
- 1992 – 1997 **Stipendiat der Studienstiftung des Deutschen Volkes
(German National Academic Foundation)**
<http://www.studienstiftung.de/>
- 1992 **Lions Club Scholarship** for cultural exchange and travel in South Africa

Teaching

- 2018 Fall **Experimental Methods in Nuclear, Particle, and Astrophysics:
Fundamentals and Detection of Weakly Interacting Particles**
graduate level course
Yale University, Instructor: Heeger and Fleming
- Modern Physical Measurements – Physics 205/206**
undergraduate level course
Yale University, Lead Instructor: Heeger
- 2018 Spring **Modern Physical Measurements – Physics 205/206**
undergraduate level course
Yale University, Lead Instructor: Heeger
- 2017 Fall *Research leave – no teaching*
- 2017 Spring **Responsible Conduct in Research – Physics 590**
lectures in graduate level course
- 2017 Spring **Modern Physical Measurements – Physics 205/206**
undergraduate level course
Yale University, Lead Instructor: Heeger
- 2016 Fall **Modern Physical Measurements – Physics 205/206**
undergraduate level course
Yale University, Lead Instructor: Heeger
- 2016 Spring **Responsible Conduct in Research – Physics 590**
lectures in graduate level course
- 2016 Spring **Modern Physical Measurements – Physics 205/206**
undergraduate level course
Yale University, Lead Instructor: Heeger
- 2015 Fall **Modern Physical Measurements – Physics 205/206**
undergraduate level course
Yale University, Lead Instructor: Heeger

2015 Spring	Modern Physical Measurements – Physics 205/206 <i>undergraduate level course</i> Yale University, Lead Instructor: Heeger
2014 Fall	Introduction to Nuclear Physics – Physics 524 <i>graduate level course</i> Yale University, Instructor: Heeger
2014 Spring	<i>Research leave – no teaching</i>
2013 Fall	<i>Research leave – no teaching</i>
2013 Spring	Experimental Methods in Nuclear, Particle, and Astrophysics – Physics 736 <i>graduate level course</i> University of Wisconsin, Instructor: Heeger
2012 Fall	research semester
2012 Spring	Experimental Methods in Nuclear, Particle, and Astrophysics – Physics 736 <i>graduate level course</i> University of Wisconsin, Instructor: Heeger
2011 Fall	research semester
2011 Spring	Experimental Methods in Nuclear, Particle, and Astrophysics – Physics 736 <i>graduate level course</i> University of Wisconsin, Instructor: Heeger
2010 Fall	research semester
2010 Spring	Experimental Methods in Nuclear, Particle, and Astrophysics – Physics 736 <i>graduate level course</i> University of Wisconsin, Instructor: Heeger
2009 Fall	Physics in the Arts – Physics 109 University of Wisconsin, Instructors: Heeger, Gilbert
2009 Spring	research semester
2008 Fall	Experimental Nuclear Physics – Physics 741 <i>graduate level course</i> University of Wisconsin, Instructor: Heeger
2008 Spring	Physics in the Arts – Physics 109 <i>undergraduate course</i> University of Wisconsin, Instructors: Heeger, Balantekin
2007 Fall	Physics in the Arts – Physics 109 <i>undergraduate course</i> University of Wisconsin, Instructor: Heeger, Halzen

2007 Spring **Physics in the Arts – Physics 109**
undergraduate course
University of Wisconsin, Instructors: Heeger, Balantekin

2006 Spring research semester

Curriculum Development

2018 Fall **Fundamentals and Detection of Weakly Interacting Particles**
graduate level course
Yale University
Developed new graduate level course on neutrinos and weakly interacting particles in preparation for a book on this topic.

2018 Summer **Modern Physical Measurements – Physics 205/206**
undergraduate level course
Yale University
Developed and updated the 206 laboratory sequence and developed methods for the unbiased evaluation of student performance

2010 Spring **Experimental Methods in Nuclear, Particle, and Astrophysics – Physics 736**
developed graduate level course on experimental methods for a broad group of experimental and theoretical students
<http://neutrino.physics.wisc.edu/teaching/PHYS736/>
University of Wisconsin, Instructor: Heeger

Schools & Lectures

2015 **2015 SLAC Summer Institute “The Universe of Neutrinos”**
Lecturer,
Stanford, Palo Alto, CA, USA, August 10-21, 2015
<http://www-conf.slac.stanford.edu/ssi/>

2012 **V. International Pontecorvo Neutrino Physics School,**
Lecturer,
Alushta, Crimea, Ukraine, September 6-16, 2012
<http://pontecorvosch.jinr.ru/General.html>

2012 **4th International Summer School on Neutrino Physics (INSS) 2012**
Lecturer,
Virginia Polytechnic Institute and State University, VA, USA, July 10-21, 2012
<http://cnp.phys.vt.edu/inss2012.html>

2012 **EDIT2012 – Excellence in Detectors and Instrumentation Technologies**
Lecturer,
Fermilab, Batavia, IL, USA, February 13-24, 2012
<http://detectors.fnal.gov/EDIT2012/>

2010 **IV. International Pontecorvo Neutrino Physics School,**
Lecturer,
Alushta, Crimea, Ukraine, September 26 – October 6, 2010
<http://pontecorvosch.jinr.ru/>

2009 **2009 International Neutrino Summer School**

- Lecturer,
Fermilab, Batavia, IL, USA, July 6-17, 2009
<http://projects.fnal.gov/nuss/>
- 2007 **III. International Pontecorvo Neutrino Physics School,**
Lecturer,
Alushta, Crimea, Ukraine, September 16-26, 2007
<http://wwwinfo.jinr.ru/pontecorvo07/>
- 2004 **Michelson Postdoctoral Prize Lectureship,**
Case Western Reserve University, April 26-30, 2004
<http://www.phys.cwru.edu/events/mppl-prior.php>
- 2003 **AAPT-APS Neutrino Workshop**
Lecturer and Organizer, “*Neutrinos: Ghostlike Particles in the Universe*”,
Berkeley Lab, November 14, 2003
- 2002 Fall **Graduate Course Lectures in Neutrino Physics**
Guest Lecturer, UC Berkeley and LBNL
Instructor: Y. Kolomensky
- 1998 Fall **Nuclear Astrophysics – Physics 554**
Graduate Course Teaching Assistant, University of Washington
Instructor: W. Haxton
- 1995 Fall **General Physics, Laboratory Instruction and Tutorials**
Undergraduate Course Teaching Assistant, University of Washington
Instructor: Physics Education Group

Teaching Training

- Fall 2009 **DELTA Roundtables** – Integrating Research, Teaching, and Learning,
University of Wisconsin
<http://www.delta.wisc.edu/>
- June 2007 **STEMES 2007 Workshop – 11th Annual Science, Technology, Engineering,
and Mathematics Education Scholars Program**
June 12-16, 2007, Howard University, DC, USA
<http://cirtl.wceruw.org/STEMES/index.html>

Outreach Programs

- 2018 Spring **Pathways to Science** – *Discovering the Invisible Universe*
Organized and supervised lab activities for middle and high school students
Spring and summer 2018
<https://wlab.yale.edu/news/yale-pathways-science-students-discover-invisible-universe-wright-lab>
- 2009 Summer **QuarkNet Summer Program, University of Wisconsin**
Supervised summer workshop with teachers from Madison West High School,
July 2009

- 2008 Summer **QuarkNet Summer Program, University of Wisconsin**
Supervised summer research project with teachers from Madison West High School, “*Quantitative Studies of Acrylic Transmittance under UV Exposure*”, August-September 2008
- 2003 Summer **QuarkNet Summer Program, LBNL**
Lecturer, “*The World of Neutrinos – Recent Results in Neutrino Astrophysics*” Berkeley Lab, July 25, 2003

Professional and Synergistic Activities

- 2018 Academic Review of Institute for Basic Science (IBS), Center for Underground Physics, Korea, *Member*
- 2018 Visiting Committee, Caltech PMA Division, *Member*
- 2018 Academic Review Committee, Columbia University, Nevis Laboratory, *Member*
- 2018 Natural Sciences and Engineering Research Council of Canada (NSERC), T2K Expert review committee, *Chair*
- 2018 Initiative for excellence of the German Research Foundation (DFG), *Member*
- 2017 – 2018 National Science Foundation, *Reviewer and Panel Reviewer*
- 2017 – 2018 APS DPF Mentoring Award Committee, *Vice Chair*
- 2017 US Atlas Director’s Review Committee, *Member*
- 2016 – 2017 Advanced Scientific Computing Advisory Committee (ASCAC),
Subcommittee for an Independent LDRD Program Review, *Member*
- 2016 – 2017 Natural Sciences and Engineering Research Council (NSERC), *Chair*
- 2015 – 2018 Natural Sciences and Engineering Research Council (NSERC), *Member*
- 2015 – 2016 APS DPF, Instrumentation Award Committee, *Member*
- 2015 – 2017 APS Division of Particles and Fields (DPF) Executive Committee, *Member*
- 2014 – 2017 Nuclear Science Advisory Committee (NSAC), *Member*
- 2014 – 2017 High Energy Physics Advisory Panel (HEPAP), *Member*
- 2014 – 2015 APS Division of Nuclear Physics (DNP) Nominating Committee, *Member*
- 2014 – 2015 APS Division of Nuclear Physics (DNP) Long Range Planning Group, *Member*
- 2014 – Present US Atlas Project Advisory Group, *Member*
- 2014 – Present Journal of Physics G, *Associate Editor*
- 2013 DOE Office of Science, High Energy Physics, FNAL S&T Review Committee
- 2013 – Present Physics Letters B (PLB), *Referee*
- 2012 – 2013 APS DPF, Community Summer Study 2013, <http://www.snowmass2013.org>
Neutrino Oscillations in the 3-Neutrino Framework, *Convener*
Non-Accelerator Underground Facilities, *Convener*
- 2012 APS DPF, Community Planning Meeting 2012, <http://www.snowmass2013.org>
Local Organizing Committee, *Member*

2012 – 2013	APS Division of Particles and Fields, Nominating Committee, <i>Member</i>
2012 – Present	European Physics Journal C, <i>Associate Editor</i>
2012 – Present	Defense Threat Reduction Agency (DTRA), <i>Reviewer</i>
2012 – Present	French Research Agency (ANR), <i>Reviewer</i>
2011 – Present	GACR Czech Science Foundation, <i>Reviewer</i>
2010 – Present	DOE Office of Science, High Energy Physics, <i>Reviewer</i>
2010 – Present	DOE Office of Science, Nuclear Physics, <i>Reviewer</i>
2010 – Present	Natural Sciences and Engineering Research Council (NSERC), <i>Reviewer</i>
2009 – 2013	APS Committee on International Scientific Affairs (CISA) <ul style="list-style-type: none">- Chair of APS CISA (2011-2012)- http://www.aps.org/about/governance/committees/cisa/- Initiated and organized trial of digital access to APS Meetings (2011)<ul style="list-style-type: none">http://www.aps.org/publications/apsnews/201104/indico.cfm.htmlhttp://www.aps.org/publications/apsnews/201110/meetingslides.cfm.htmlhttp://www.aps.org/units/fip/newsletters/201109/heeger.cfm.htmlhttp://agenda.hep.wisc.edu/conferenceDisplay.py?confid=483- Leading development of the APS US-China program (2010-Present)- Chaired subcommittee on future international activities of APS
2009 – Present	Physical Review C, <i>Referee</i>
2007 – Present	Journal of Applied Physics, <i>Referee</i>
2007 – Present	National Science Foundation, <i>Reviewer and Panel Reviewer</i>
2007 – 2010	National Nuclear Physics Summer School Steering Committee, <i>Member</i>
2007	APS Division of Nuclear Physics Long Range Plan, <i>Working Group Member</i>
2005	APS California Section Executive Committee, <i>Member-at-Large</i>
2004 – 2005	Civilian Research & Development Foundation (CRDF), <i>Review Panel Member</i>
2003 – 2004	APS Neutrino Study, <i>Working Group Member</i>
2004	APS Forum on Graduate Student Affairs (FGSA), <i>Past-Chair</i>
2004	APS Committee on Membership, <i>Member</i>
2003	APS Forum on Graduate Student Affairs (FGSA), <i>Chair</i>
2003	APS CAM2003, <i>Conference Organizing Committee, Co-Chair</i>
2002 – 2003	Lawrence Berkeley National Laboratory, <i>Neutrino Planning Group, Member</i>
2002	APS Forum on Graduate Student Affairs (FGSA), <i>Chair-Elect, Program Chair</i>
2002 – Present	Nuclear Instrumentation and Methods, <i>Referee</i>
2002	Lobbying Congress with the APS Office of Public Affairs
1996 – Present	Member of the American Physical Society (APS) European Physical Society (EPS) German Physical Society (DPG) Institute of Physics (IOP)

Conference Organization

- 2019 *2019 International Workshop on Baryon and Lepton Number Violation (BLV2019)*
Organizing Committee, Member
Institute for Theoretical Physics (IFT) Madrid, Spain, October 21-24 2019
<https://workshops.ift.uam-csic.es/BLV2019>
- 2019 2019 International Conference on Applications of Nuclear Techniques
Organizing Committee, Member
Crete, Greece, June 9-15, 2019
<https://www.creteconf.org>
- 2018 *National Nuclear Physics Summer School (NNPSS)*
Organizing Committee, Member
Yale Wright Laboratory, June 17-30, 2018
<https://wlab.yale.edu/nnpss2018>
- 2015 *Workshop on the Intermediate Neutrino Program*
Scientific Advisory Committee, Member
Reactor Working Group, Co-convener
BNL, February 4-6, 2014
<http://www.bnl.gov/winp/>
- 2013 *IceCube Particle Astrophysics Symposium (IPA2013)*
Organizing Committee Member,
Madison, WI, USA, May 13-15, 2013
<http://wipac.wisc.edu/meetings/home/ipa2013>
- 2013 *Snowmass Intensity Frontier Neutrino Workshop*
Working group convener,
SLAC, CA, USA, March 6-7, 2013
<https://indico.fnal.gov/conferenceDisplay.py?confId=6122>
- 2012 *Community Planning Meeting (CMP2012)*
Local Organizing Committee Member,
Fermilab, Batavia, IL, USA. October 11-13, 2012
<http://www.snowmass2013.org/>
- 2012 *NNN12 – 12th International Workshop on Next Generation Nucleon Decay and Neutrino Detectors,*
Co-Chair of the Organizing Committee
Fermilab, Batavia, IL, USA. October 4-7, 2012
<http://conferences.fnal.gov/nnn12/>
- 2012 *First Joint Scientific Session of the Chinese Physical Society (CPS) and the American Physical Society (APS) at CPS Annual Meeting,*
Chair of the Organizing Committee
Guangzhou, China, September 22, 2012
<http://www.aps.org/programs/international/conferences/cps2012.cfm>
- 2012 *Neutrinos and Dark Matter – US-China School for Young Physicists*
Co-Chair of the Organizing Committee

- Shanghai, China, September 16-20, 2012
<http://www.physics.sjtu.edu.cn/spcs/>
- 2010 *The Future of Neutrino Mass Measurements: Terrestrial and Astrophysical Measurements in the Next Decade,*
Lead Workshop Organizer
Institute for Nuclear Theory, University of Washington, Seattle, WA, USA,
February 8-11, 2010
<http://www.int.washington.edu/PROGRAMS/10-44w.html>
- 2009 *Neutrinos and Dark Matter (NDM09),*
Co-Chair of the Organizing Committee
Madison, WI, USA, August 31-September 5, 2009
<http://www.physics.wisc.edu/ndm09/>
- 2009 *CIPANP09: Intersection of Particle and Nuclear Physics,*
Convener for session on “Nuclear and Particle Astrophysics”
San Diego, CA, USA, May 26-31, 2009
<http://groups.physics.umn.edu/cipanp2009>
- 2005 *Neutrino Physics Planning Meeting at PANIC05,*
Member of the Organizing Committee
Santa Fe, NM, USA, October 28-30, 2005
<http://panic05.lanl.gov/index.php?link=satellite>
- 2005 *APS California Section Meeting,*
Member of the Program Committee
Sacramento, CA, USA, October 21-22, 2005
<http://aps-ca.lbl.gov/>
- 2003 *Neutrinos: Ghostlike Particles in the Universe,*
APS-AAPT Workshop for Teachers and Students, Co-Organizer
Berkeley, CA, USA, November 14, 2003
<http://pdg.lbl.gov/aapt-aps/workshop.html>
- 2003 *The Future of Physics Education and the Fate of the Universe,*
AAPT California-Nevada and APS California Section Meeting,
Member of the Organizing Committee
Berkeley, CA, USA, November 14-15, 2003
<http://pdg.lbl.gov/aapt-aps/>
- 2003 *CAM2003 – Canadian, American, Mexican Graduate Student Conference*
Student Visions for Physics in the 21st Century,
Co-Chair of the US Advisory Committee for CAM2003
Merida, Mexico, October 24-27, 2003
<http://www.mda.cinvestav.mx/cam2003>
- 1999 *8th US Symposium of the German National Academic Foundation*
Member of the Local Organizing Committee
Seattle, Washington, USA, 1999

University and Department Service

- 2018-2019 Yale University
- Physical Sciences Area Committee and Tenure Appointments Committee (PSETAC)
 - Lead organizer for the inaugural Yale Day of Instrumentation, November 16, 2018 <https://instrumentation.yale.edu/yale-day-instrumentation>
 - Machine shop advisory committee
 - Center for Research Computing (YCRC), Focus Group on “Grant Opportunities”,
 - Task force on BNL-Yale relation, *Member*
 - Lead the development of a 5-year Wright Lab Strategic Plan
- Yale University, Physics Department
- Appointment Committee for Alison Sweeney
- 2017-2018 Yale University
- Physical Sciences Area Committee and Tenure Appointments Committee (PSETAC)
 - University Science Strategy, Subcommittee on “Instrumentation & Measurement Institute”
 - Machine shop advisory committee
- Yale University, Physics Department
- Special Opportunity Committee
- 2016-2017 Yale University
- Machine shop advisory committee
- Yale University, Physics Department
- Target of opportunity committee, *chair*
 - Space committee
- 2015-2016 Yale University
- Machine shop advisory committee
- Yale University, Physics Department
- Faculty search committee in nuclear, particle, and astrophysics
 - Target of opportunity committee
 - Space committee, *co-chair*
 - Safety committee
 - Physics colloquium committee
- 2014-2015 Yale University
- Machine shop advisory committee
- Yale University, Physics Department
- Space committee, *co-chair*
 - Strategic planning committee
 - Target of opportunity committee
 - Graduate admissions committee
 - Safety Committee
- 2013-2014 Yale University
- Keasbey Scholarship Committee
- Yale University, Physics Department
- Graduate Admissions Committee
 - Safety Committee
 - Promotions Committee
- 2012-2013 University of Wisconsin, Physics Department

- Computing & IT Committee
- Scientist Committee

2011-2012 University of Wisconsin, Physics Department

- Department Board of Visitor Committee
- Faculty&Staff Recognition Committee
- Amenities Committee
- UW campus China Initiative

2010-2011 University of Wisconsin, Physics Department

- Faculty Search Committee in Experimental Neutrino Physics (chair)
- Strategic Planning Committee
- New Staff Committee
- Graduate Program Committee
- Graduate Student Admissions & Fellowships Committee
- Colloquium Committee

2009-2010 University of Wisconsin, Physics Department

- Strategic Planning Committee
- New Staff Committee
- Web Committee
- Computing & IT Committee
- Colloquium Committee

2008-2009 University of Wisconsin, Physics Department

- Graduate Program Committee
- Graduate Student Admissions & Fellowships Committee
- Colloquium Committee
- Computing & IT Committee

2007-2008 University of Wisconsin, Physics Department

- Graduate Student Admissions & Fellowships Committee
- Colloquium Committee
- Committee on Introductory Courses, Labs, and Lecture Room
- Physics Library Committee

Advising and Mentoring

Currently advising, mentoring, and supervising 4 graduate students, 2 postdocs, and 4 scientists. Graduated 7 PhD students and 1 M.Sc. student.

Scientist/Researcher

Dr. James Nikkel	Feb 2016 – Present	Research Scientist
Dr. Penny Slocum	Feb 2014 – Present	Associate Scientist
Dr. Thomas Langford	Oct 2013 – Present	Associate Scientist
Dr. Henry Band	Oct 2007 – Present	Senior Scientist

Postdoctoral Fellows

Dr. Danielle Speller	Mar 2017 – Present
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Graduate Students

Ben Foust Sep 2016 – Present
Project: A Precise Measurement of the ^{235}U Antineutrino Spectrum in PROSPECT

Luis Saldana Sep 2015 – Present
Project: Event Classification and Measurement of the Tritium Endpoint in Project 8

Jeremy Gaison Aug 2015 - Present
Thesis: Search for eV-scale sterile neutrinos with PROSPECT and Daya Bay
- won 2017 NSF Graduate Fellowship

Danielle Norcini Sep 2014 - Present
Thesis: Search for eV-scale sterile neutrinos with PROSPECT and Measurement of the Reactor Antineutrino Spectrum from ^{235}U with PROSPECT
- won 2015 APS PDF travel award for student presentation

Postgraduate Training

Arina Bykadorova Sep 2016– Present
Projects: PROSPECT, Project 8

Undergraduate Students

Joshua Swerdlow Jan 2018 – Present
Project: Project 8

Lukas Baker Mar 2018 – Present
Project: PROSPECT

Former Group Members

Scientist/Researcher

Thomas Wise Oct 2006 – May 2018 Researcher
- won 2008 UW Chancellor's Award for Excellence in Research

Postdoctoral Fellows and Scientists

<i>Name</i>	<i>Date</i>	<i>Current Position</i>
Dr. Kyungeun Lim	Mar 2013 – 2017	Senior Lead Data Scientist, NBC Universal Media
Dr. Walter Pettus	Aug 2015 – May 2016	Postdoc, University of Washington, Seattle, USA
Dr. Ke Han	Oct 2014 – Feb 2016	Assistant Professor, SJTU, China
Dr. David Webber	Jun 2010 – Sep 2013	Data scientist, Scanalytics
Dr. Daniel Lenz	Apr 2010 – Dec 2011	Development engineer, Zeiss Optics
Dr. Wei Wang	Jul 2007 – Jul 2011	Professor, Sun Yat-Sen University, China
Dr. S. Sangiorgio	Oct 2007 – Mar 2010	Scientist, LLNL, USA

Graduate Students

Jeremy Cushman Sep 2013 – December 2017
Thesis: Search for neutrinoless double beta decay with CUORE

Walter Pettus May 2010 – June 2015 Development engineer

Thesis: "Cosmogenic Activation in NaI Detectors for Dark Matter Searches"

- won a 2011 DOE NNSA Stewardship Science Graduate Fellowship
- won invitation to 2012 Lindau Nobel Laureate Meeting

Adam Dally May 2010 – Jan 2015 Research Scientist in industry

Thesis: "Towards a precise energy calibration of the CUORE double beta decay experiment"

Christine Lewis May 2008 – February 2014 Research staff at Institute for Defense Analysis

Thesis: "Precision Measurement of the Reactor Antineutrino Spectrum at Daya Bay and Search for Non-Standard Interactions"

Michael McFarlane Jan 2007 – May 2014 Product engineer in industry

Thesis: "Measurement of θ_{13} Oscillations at Daya Bay: Evidence of Spectral Distortion"

Larissa Ejzak Jan 2007 – May 2013 Scientific editor

Thesis: "Calibrating the CUORE Bolometer Array: In Search of Neutrinoless Double Beta Decay"

- honorable mention in the 2007 NSF Graduate Fellowship Competition

Bryce Littlejohn Jan 2007 – May 2012 Assistant Professor at IIT

PhD Thesis: "Observation of Electron Antineutrino Disappearance at Daya Bay"

- won 2008 NSF East Asia and Pacific Summer Institute Fellowship

Daniel Passmore Jan 2007 – Jun 2007 Application scientist in industry

M.Sc. Thesis: "Precision Measurement of the Target Mass in the Daya Bay Antineutrino Detectors"

Undergraduate Researchers

<i>Name/Institution</i>	<i>Date</i>	<i>Awards/Current Position</i>
Lukas Baker Yale University	2018	Senior at Yale
Joshua Swerdlow Yale University	2018	Senior at Yale
Arina Bykadorva Telles Yale University	2018	Postgrad at Yale Wright Laboratory
Jack Roth Yale University	2017-2018	Senior at Yale
Nate Stemen NYU, Yale University	Summer 2015 Summer 2014	Pposter presentation at 2015 APS Division of Nuclear Physics Meeting, Conference Experience for Undergraduates (CEU), Santa Fe, NM
Benjamin Weiner Yale University	Jan 2015 – May 2015	Postgraduate studies
Karl Medina Yale University	Jan 2015 – May 2014	UIUC graduate school
Pingchuan Zhao Univ. of Wisconsin	Sep 2012 – Sep 2013	Graduate school
Jess Clark	Jan 2012 – Nov 2012	High-school science teacher education in Madison

Univ. of Wisconsin		
Jesse Nims	May 2011 – May 2012	UC Berkeley graduate school
Univ. of Wisconsin		
Benjamin Broerman, Univ. of Wisconsin	Jun 2010 – May 2012	- now graduate student at Queen's University, ON, Canada - won a 2011-2012 Wisconsin Hilldale Undergraduate/Faculty Research Fellowship - poster presentation at 2011 APS Division of Nuclear Physics Meeting, Conference Experience for Undergraduates (CEU), East Lansing, MI - won 2010 DOE/INFN summer research fellowship
Ian Guinn, Univ. of Wisconsin	Sep 2009 – May 2012	- poster presentation at 2010 APS Division of Nuclear Physics Meeting, Conference Experience for Undergraduates (CEU), Santa Fe, NM
Alex Green, Univ. of Wisconsin	Sep 2009 – Jun 2011	- poster presentation at 2010 APS Division of Nuclear Physics Meeting, Conference Experience for Undergraduates (CEU), Santa Fe, NM
Jacob Swan, Univ. of Wisconsin	Sep 2009 – Feb 2010	
Jacqueline Houston, Univ. of Wisconsin	Aug 2008 – Aug 2009	
Patrick Mende, Univ. of Wisconsin	Sep 2007 – Aug 2009	- now graduate student at Carnegie Mellon University - won 2007-08 Liebenberg Family Undergraduate Research Scholarship, University of Wisconsin - poster presentation at 2008 APS Division of Nuclear Physics Meeting, Conference Experience for Undergraduates (CEU), Oakland, CA - presentation at 2008 Undergraduate Research Symposium, University of Wisconsin
Ho Ling Li, Univ. of Wisconsin	Sep 2006 – Aug 2008	- now graduate student at University of Chicago - presentation at 2008 Undergraduate Research Symposium, University of Wisconsin - poster presentation at 2007 APS Division of Nuclear Physics Meeting, Conference Experience for Undergraduates (CEU), Newport News, VA
Dan Zou, Univ. of Wisconsin	Sep 2006 – Aug 2008	- now graduate student at University of Chicago - won 2007 Hilldale Undergraduate Research Fellowship, University of Wisconsin - presentation at 2008 Undergraduate Research Symposium, University of Wisconsin
Jason Ma, Cal Poly & LBNL	Summer 2004	<i>project: "Baseline Optimization for a New Reactor Neutrino Experiment to Measure θ_{13}"</i>
Brian Perry, Cal Poly & LBNL	Summer 2003	<i>project: "Development of a New Calibration System for KamLAND"</i>
Steven Furlanetto,	Summer 1999	REU student, University of Washington,

Carleton College	now Associate Professor at UCLA
	<i>project: "Sensitivity of SNO to Neutrino Oscillation Using Charged-Current Spectrum Data"</i>
Toshiko Asai, University of Washington	Summer 1998
	<i>project: "Determination of the Photodisintegration Background from ^{238}U and ^{232}Th in SNO"</i>
Lincoln Webbeking, University of Washington	Summer 1997
	<i>project: "Microdischarge Studies of Neutral Current Detector Components"</i>

PhD Exams

James Mulligan, Yale University

Member of the PhD committee, Advisor: Prof. John Harris, October 9, 2018

Paul Andrei Puiu, University of Milan, Italy

External examiner to the PhD committee, Advisor: Dr. Angelo Nucciotti, April 11, 2017

Stefano Pozzi, University of Milan, Italy

External examiner to the PhD committee, Advisor: Dr. Maura Pavan, April 11, 2017

Corey Adams, Yale University

Member of the PhD committee, Advisor: Prof. Bonnie Fleming, September 27, 2016

Matteo Biassoni, University of Milan, Italy

External examiner to the PhD committee, Advisor: Prof. Oliviero Cremonesi, February 11, 2013

Bryce Littlejohn, University of Wisconsin, USA

Thesis Advisor, May 11, 2012

Carl Pfender, University of Wisconsin, USA

Member of the PhD committee, Advisor: Prof. Stefan Westerhoff, February 13, 2012

Gwynne Crowder, University of Wisconsin, USA

Member of the PhD committee, Advisor: Prof. Dan McCammon, January 17, 2012

Mike Baker, University of Wisconsin, USA

Member of the PhD committee, Advisor: Prof. Teresa Montaruli, November 10, 2011

Kai Wang, University of Wisconsin, USA

Member of the PhD committee, Advisor: Prof. Tao Han, May 7, 2008

Jessica Hodges, University of Wisconsin, USA

Member of the PhD committee, Advisor: Prof. Albrecht Karle, May 11, 2007

Samuele Sangiorgio, Università dell'Insubria, Como, Italy

External examiner to the PhD committee, Advisor: Prof. Andrea Giuliani, February 23, 2007

Technical Staff

Supervised the following staff as part of our research projects.

PROSPECT

Jeff Cherwinka (senior engineer), Kevin Koehler (engineer), Jordon Bricco (CAD designer), Jeff Ashenfelter (logistics), Frank Lopez (research technician), Tom Barker (electrical engineer), Tom Hurteau (research technical)

Daya Bay

Jeff Cherwinka (senior engineer), Lee Greenler (senior engineer), Dan Wenman (senior engineer), Qiang Xiang (senior engineer), Dan Wahl (electrical engineer), Harold Mattison (electrical engineer), Darrel Hamilton (technician), Andrew Arbuckle (technician), Amy Pagac (designer), Jonathan Heise (project support specialist)

CUORE

Ken Kriesel (senior engineer), Glen Gregerson (designer)

DM-Ice

Jeff Cherwinka (senior engineer), Glen Gregerson (designer), Darrel Hamilton (technician)

International and Professional Experience

- Conducted research and managed scientific projects in Antarctica, China, Italy, Japan, Canada, and the USA.

- Directed the Yale Wright Laboratory with over 120 scientific personnel, faculty, postdocs and students. Led the transformation of the Wright Nuclear Structure Laboratory into the Yale Wright Laboratory.

- Managed and supervised up to 22 technical and scientific staff during the construction of the Daya Bay experiment in China. Coordinated the activities of about 50 people in the US, China, and Taiwan as US manager for the Daya Bay antineutrino detectors, and level-2 manager of the Daya Bay project

- Traveled in Antarctica, New Zealand, Iceland, Egypt, Ukraine, Japan, China, Hong Kong, Vietnam, South Africa, Mexico, Polynesia, Canada, USA, and many countries in Europe.

Languages

German (native)

English (fluent)

French (comprehension)

Other Interests

Enjoys playing the violin, climbing, and skiing.

Citation Summary

h-index: 55, total number of citations: 27,108 citations in 2018: 2147

For a full up-to-date citation analysis see

http://inspirehep.net/search?ln=en&ln=en&p=find+author+heeger%2C+k&of=hcs&action_search=Search&sf=&so=d&rm=&rg=25&sc=0

Refereed Journal Articles

For a complete list of SPIRES HEP listing see:

http://inspirehep.net/search?ln=en&ln=en&p=find+author+heeger%2C+k&of=hb&action_search=Search&sf=&so=d&rm=&rg=25&sc=0

112. *Lithium-loaded Liquid Scintillator Production for the PROSPECT experiment*

H.R. Band et al (PROSPECT Collaboration)

arXiv:1901.05569, submitted to JINST

111. *Electron Radiated Power in Cyclotron Radiation Emission Spectroscopy Experiments*

A. Ashtari Esfahani et al. (Project 8 Collaboration)

arXiv:1901.02844, submitted to Phys. Rev. C.

110. *Measurement of the Antineutrino Spectrum from ^{235}U Fission at HFIR with PROSPECT*

J. Ashenfelter et al. (PROSPECT Collaboration)

arXiv:1812.10877, submitted to PRL

109. *Double-beta decay of ^{130}Te to the first 0^+ excited state of ^{130}Xe with CUORE-0*

Xe with CUORE-0

C. Alduino et al. (CUORE Collaboration)

arXiv:1811.10363, submitted to Phys. Rev. C

108. *Neutrino-based tools for nuclear verification and diplomacy in North Korea*

Rachel Carr et al.

arXiv:1811.04737

107. *Search for a time-varying electron antineutrino signal at Daya Bay*

D. Adey et al. (Daya Bay Collaboration)

Phys.Rev. D98 (2018) no.9, 092013

106. *Measurement of electron antineutrino oscillation with 1958 days of operation at Daya Bay*

D. Adey et al. (Daya Bay Collaboration),

Phys.Rev.Lett. 121 (2018) no.24, 241805

105. *Improved Measurement of the Reactor Antineutrino Flux at Daya Bay*

D. Adey et al. (Daya Bay Collaboration),

arXiv:1808.10836

104. *The PROSPECT Reactor Antineutrino Experiment*

J. Ashenfelter et al. (PROSPECT Collaboration)

arXiv:1808.00097, accepted by NIM

103. *First search for short-baseline neutrino oscillations at HFIR with PROSPECT*

J. Ashenfelter et al. (PROSPECT Collaboration)

Phys.Rev.Lett. 121 (2018) no.25, 251802

102. *Performance of a segmented ^6Li -loaded liquid scintillator detector for the PROSPECT experiment*

J. Ashenfelter et al. (PROSPECT Collaboration)
JINST 13 (2018) no.06, P06023

101. *Study of Rare Nuclear Processes with CUORE*
C. Alduino et al. (CUORE Collaboration)
Int.J.Mod.Phys. A33 (2018) no.09, 1843002

100. *Cosmogenic neutron production at Daya Bay*
F.P. An et al.,(Daya Bay Collaboration)
Phys.Rev. D97 (2018) no.5, 052009

99. *First Results from CUORE: A Search for Lepton Number Violation via $0\nu\beta\beta$ Decay of ^{130}Te*
C. Alduino et al. (CUORE Collaboration)
Phys.Rev.Lett. 120 (2018) no.13, 132501

98. *Search for Neutrinoless $\beta+EC$ Decay of ^{120}Te with CUORE-0*
C. Alduino et al. (CUORE Collaboration)
Phys.Rev. C97 (2018) no.5, 055502

97. *Low Energy Analysis Techniques for CUORE*
C. Alduino et al. (CUORE Collaboration)
Eur.Phys.J. C77 (2017) no.12, 857

96. *Seasonal Variation of the Underground Cosmic Muon Flux Observed at Daya Bay*
F.P. An et al.,(Daya Bay Collaboration)
JCAP 1801 (2018) no.01, 001

95. *CUORE sensitivity to $0\nu\beta\beta$ decay*
C. Alduino et al. (CUORE Collaboration) Eur.Phys.J. C77 (2017) no.8, 532

94. *The projected background for the CUORE experiment*
C. Alduino et al. (CUORE Collaboration)
Eur.Phys.J. C77 (2017) no.8, 543

93. *Evolution of the Reactor Antineutrino Flux and Spectrum at Daya Bay*
F.P. An et al.,(Daya Bay Collaboration)
Phys.Rev.Lett. 118 (2017) no.25, 251801

92. *Determining the neutrino mass with cyclotron radiation emission spectroscopy—Project 8*
A.A. Esfahani (Project 8 Collaboration)
J.Phys. G44 (2017) no.5, 054004

91. *The CUORE cryostat and its bolometric detector*
C. Alduino et al. (CUORE Collaboration)
JINST 12 (2017) no.02, C02055

90. *Measurement of electron antineutrino oscillation based on 1230 days of operation of the Daya Bay experiment*
F.P. An et al.,(Daya Bay Collaboration)
Phys. Rev. D **95**, 072006 (2017)

89. *Measurement of the two-neutrino double-beta decay half-life of ^{130}Te with the CUORE-0 experiment*
C. Alduino et al. (CUORE Collaboration)
Eur.Phys.J. C77 (2017) no.1, 13

87. *The detector calibration system for the CUORE cryogenic bolometer array*

J.S. Cushman *et al.*

Nucl.Instrum.Meth. A844 (2017) 32-44

87. *Study of the wave packet treatment of neutrino oscillation at Daya Bay*

F.P. An *et al.*, (Daya Bay Collaboration)

arXiv:1608.01661

86. *Improved Measurement of the Reactor Antineutrino Flux and Spectrum at Daya Bay*

F.P. An *et al.*, (Daya Bay Collaboration)

Chin.Phys. C2017 41

85. *Limits on Active to Sterile Neutrino Oscillations from Disappearance Searches in the MINOS, Daya Bay, and Bugey-3 Experiments*

P. Adamson *et al.* (Daya Bay and MINOS Collaborations)

Phys.Rev.Lett. 117 (2016) no.15, 151801

84. *Improved Search for a Light Sterile Neutrino with the Full Configuration of the Daya Bay Experiment*

F.P. An *et al.*, (Daya Bay Collaboration)

Phys.Rev.Lett. 117 (2016) no.15, 151802

83. *CUORE-0 detector: design, construction and operation*

C. Alduino *et al.* (CUORE Collaboration)

arXiv: 1604.05465, JINST 11 (2016) no.07, P07009

82. *New measurement of θ_{13} via neutron capture on hydrogen at Daya Bay*

F.P. An *et al.* (Daya Bay Collaboration)

Phys.Rev. D93 (2016) no.7, 072011

81. *First Search for a Dark Matter Annual Modulation Signal with NaI(Tl) in the Southern Hemisphere by DM-Ice17*

E. Barbosa de Souza *et al.* (DM-Ice Collaboration)

arXiv:1602.05939, submitted to PRL

80. *Analysis Techniques for the Evaluation of the Neutrinoless Double-Beta Decay Lifetime in ^{130}Te with CUORE-0*

C. Alduino *et al.* (CUORE Collaboration)

Phys.Rev. C93 (2016) no.4, 045503

79. *The PROSPECT Physics Program*

J. Ashenfelter *et al.* (PROSPECT Collaboration)

J.Phys. G43 (2016) no.11, 113001

78. *Measurement of Muon Annual Modulation and Muon-Induced Phosphorescence in NaI(Tl) Crystals with DM-Ice17*

J. Cherwinka *et al.* (DM-Ice Collaboration)

Phys.Rev. D93 (2016) 4, 042001

77. *Light Collection and Pulse-Shape Discrimination in Elongated Scintillator Cells for the PROSPECT Reactor Antineutrino Experiment*

J. Ashenfelter *et al.* (PROSPECT Collaboration)

JINST 10 (2015) 11, P11004

76. *Measurement of the Reactor Antineutrino Flux and Spectrum at Daya Bay*

F.P. An *et al.* (Daya Bay Collaboration)

Phys.Rev.Lett. 116 (2016) 6, 061801

75. *The Detector System of The Daya Bay Reactor Antineutrino Experiment*
F.P. An et al (Daya Bay Collaboration)
Nucl.Instrum.Meth. A811 (2016) 133-161
74. *Background Radiation Measurements at High Power Research Reactors*
J. Ashenfelter et al (PROSPECT Collaboration)
Nucl.Instrum.Meth. A806 (2016) 401-419
73. *New Measurement of Antineutrino Oscillation with the Full Detector Configuration at Daya Bay*
F.P. An et al (Daya Bay Collaboration)
Phys.Rev.Lett. 115 (2015) 11, 111802
72. *Search for Neutrinoless Double-Beta Decay of ^{130}Te with CUORE-0*
K. Alfonso et al (CUORE Collaboration)
Phys.Rev.Lett. 115 (2015) 10, 102502
71. *Search for a Light Sterile Neutrino at Daya Bay*
F. P. An et al (Daya Bay Collaboration),
Phys.Rev.Lett. 113 (2014) 141802
70. *CUORE and beyond: bolometric techniques to explore inverted neutrino mass hierarchy*
D.R. Artusa et al., arXiv:1407.1094
69. *A compact ultra-clean system for deploying radioactive sources inside the KamLAND detector*
T.I. Banks et al.
Nucl.Instrum.Meth. A769 (2014) 88-96
68. *The Muon System of the Daya Bay Reactor antineutrino experiment*
F. P. An et al (Daya Bay Collaboration),
Nucl.Instrum.Meth. A773 (2015)
67. *Independent Measurement of θ_{13} via Neutron Capture on Hydrogen at Daya Bay*
F. P. An et al (Daya Bay Collaboration),
Phys.Rev. D90 (2014) 7, 071101
66. *^7Be Solar Neutrino Measurement with KamLAND*
A. Gando et al (KamLAND Collaboration),
Phys. Rev. C 92 (2015), 055808
65. *Exploring the Neutrinoless Double Beta Decay in the Inverted Neutrino Hierarchy with Bolometric Detectors*
D.R. Artusa et al. (CUORE Collaboration),
Eur.Phys.J. C74 (2014) 10, 3096
64. *Production of Gadolinium-loaded Liquid Scintillator for the Daya Bay Reactor Neutrino Experiment*
W. Beriquette et al, arXiv: 1404.4469,
Nucl.Instrum.Meth. A763 (2014) 82-88
63. *Searching for neutrinoless double-beta decay of ^{130}Te with CUORE*
D.R Artusa et al (CUORE Collaboration),
Adv.High Energy Phys. 2015 (2015) 879871
62. *Initial Performance of the CUORE-0 Experiment*
C.P. Aguirre et al. (CUORE Collaboration),

Eur.Phys.J. C74 (2014) 8, 2956

61. *First Data from DM-Ice17*

J. Cherwinka et al. (DM-Ice Collaboration),
Phys.Rev. D90 (2014) 9, 092005

60. *Laboratory Studies on the Removal of Radon-Born Lead from KamLAND's Organic Liquid Scintillator*

G. Keefer et al. (KamLAND Collaboration),
Nucl.Instrum.Meth. A769 (2014) 79-87

59. *Assembly and Installation of the Daya Bay Antineutrino Detectors*

H.R. Band et al.
JINST 8 T11006 (2013)

58. *Spectral measurement of electron antineutrino oscillation amplitude and frequency at Daya Bay*

F.P. An et al (Daya Bay Collaboration)
Phys.Rev.Lett. 112 (2014) 061801

57. *Multiple Detectors for a Short-Baseline Neutrino Oscillation Search Near Reactors*

K. M. Heeger, B. R. Littlejohn, H. P. Mumm
arXiv:1307.1089, submitted to PRD

56. *The Daya Bay Antineutrino Detector Filling System and Liquid Mass Measurement*

H.R. Band. et al.
JINST 8 (2013) P09015

55. *Experimental Parameters for a Reactor Antineutrino Experiment at Very Short Baselines.*

K.M. Heeger, B.R. Littlejohn, H.P. Mumm, M.N. Tobin
Phys. Rev. D 87, 073008 (2013)

54. *Improved Measurement of Electron Antineutrino Disappearance at Daya Bay*

F.P. An et al (Daya Bay Collaboration),
Chin.Phys. C37 (2013) 011001

53. *Daya Bay Antineutrino Detector Gas System*

H.R. Band, J.J. Cherwinka, M-C. Chu, K.M. Heeger, M.W. Kwok, K. Shih, T. Wise, Q. Xiao
JINST 7, P11029 (2012)

52. *Validation of techniques to mitigate copper surface contamination in CUORE*

F. Alessandria et al. (CUORE Collaboration),
Astropart.Phys. 45 (2013) 13-22

51. *Search for 14.4 keV solar axions from M1 transition of Fe-57 with CUORE crystals*

F. Alessandria et al. (CUORE Collaboration),
JCAP05(2013)007

50. *The low energy spectrum of TeO₂ bolometers: results and dark matter perspectives for the CUORE-0 and CUORE experiments*

F. Alessandria et al. (CUORE Collaboration),
JCAP 1301 (2013) 038

49. *Target Mass Monitoring and Instrumentation in the Daya Bay Antineutrino Detectors*

H.Band et al.,
JINST 8 (2013) T04001

48. *Long-Term Testing and Properties of Acrylic for the Daya Bay Antineutrino Detectors*
M. Krohn, B.R. Littlejohn, and K.M. Heeger
JINST 7, T08001 (2012)
47. *Observation of Electron Antineutrino Disappearance at Daya Bay*
F.P. An et al (Daya Bay Collaboration),
Phys.Rev.Lett. 108, 171803, (2012)
46. *A Side-by-Side Comparison of Daya Bay Antineutrino Detectors*
F.P. An et al (Daya Bay Collaboration),
Nucl.Instrum.Meth.A 685 (2012)
45. *Low-Background Monitoring Cameras for the Daya Bay Antineutrino Detectors*
H.R. Band et al.,
JINST 7, P08005 (2012)
44. *Leakage Tests of the Stainless Steel Vessels of the Antineutrino Detectors in the Daya Bay Neutrino Experiment*
X. Chen, et al.
arXiv:1203.0346, Submitted to Chinese Physics C (2012)
43. *Acrylic Target Vessels for a High-Precision Measurement of θ_{13} with the Daya Bay Antineutrino Detectors*
H. R. Band et al,
JINST 7, P06004 (2012)
42. *Search for Sterile Neutrinos with a Radioactive Source at Daya Bay*
D.A. Dwyer, K.M. Heeger, B.R. Littlejohn, P. Vogel,
Phys.Rev. D87 (2013) no.9, 093002
41. *Sensitivity of CUORE to Neutrinoless Double Beta Decay*
F. Alessandria et al. (CUORE Collaboration),
arXiv:1109.0494, Submitted to Astroparticle Physics (2011)
40. *CUORE Crystal Validation Runs: Results on Radioactive Contamination and Extrapolation to CUORE Backgrounds*
F. Alessandria et al. (CUORE Collaboration),
Astropart.Phys. 35, 839-849 (2012)
39. *Partial radiogenic heat model for Earth revealed by geoneutrino measurements*
A. Gando et al. (KamLAND Collaboration),
Nature Geoscience 4, 647–651 (2011)
38. *Measurement of the ν_e and Total ^8B Solar Neutrino Fluxes with the Sudbury Neutrino Observatory Phase-III Data Set*
B. Aharmim et al, (SNO Collaboration),
Phys.Rev. C87 (2013) no.1, 015502
37. *A Search for the Dark Matter Annual Modulation in South Pole Ice*
J. Cherwinka et al,
Astropart.Phys. 35, 749-754 (2012)

36. *Measurement of the ^8B Solar Neutrino Flux with the KamLAND Liquid Scintillator Detector*
A. Gando et al. (KamLAND Collaboration)
Phys. Rev. C 84, 035804 (2011)
35. *A Study of Extraterrestrial Antineutrino Sources with the KamLAND Detector*
A. Gando et al. (KamLAND Collaboration)
Astrophys.J 745 193 (2012)
34. *Constraints on θ_{13} from A Three-Flavor Oscillation Analysis of Reactor Antineutrinos at KamLAND*
A. Gando et al. (KamLAND Collaboration),
Phys. Rev. D 83, 052002 (2011)
33. *Solar fusion cross sections II: the pp chain and CNO cycles,*
E. G. Adelberger et al.,
Rev.Mod.Phys. 83, 195, (2011)
32. *Production of Radioactive Isotopes through Cosmic Muon Spallation in KamLAND*
S. Abe et al. (KamLAND Collaboration),
Phys.Rev.C 81, 025807 (2010)
31. *The low-temperature energy calibration system for the CUORE bolometer array*
S. Sangiorgio, L.M. Ejzak, K.M. Heeger, R.H. Maruyama, A. Nucciotti, M. Olcese, T.S. Wise, A.L. Woodcraft, LTD13,
arXiv:0908.0167, AIP Conf.Proc.1185:677-680 (2009)
30. *UV Degradation of the Optical Properties of Acrylic for Neutrino and Dark Matter Experiments*
B. Littlejohn, K.M. Heeger, T. Wise, E. Gettrust, and M. Lyman,
JINST 4:T09001 (2009)
29. *The KamLAND Full-Volume Calibration System*
B.E. Berger et al. (KamLAND Collaboration),
JINST 4:P04017 (2009)
28. *Measurement of the Cosmic Ray and Neutrino-Induced Muon Flux at the Sudbury Neutrino Observatory*
B. Aharmim, et al. (SNO Collaboration),
Phys.Rev.D80:012001 (2009)
27. *Independent Measurement of the Total Active ^8B Solar Neutrino Flux Using an Array of ^3He Proportional Counters at the Sudbury Neutrino Observatory,*
B. Aharmim, et al. (SNO Collaboration),
Phys. Rev. Lett. 101, 111301 (2008).
26. *Precision Measurements of Neutrino Oscillation Parameters with KamLAND*
S. Abe et al. (KamLAND Collaboration),
Phys. Rev. Lett. 100, 221803 (2008).
25. *An array of low-background ^3He proportional counters for the Sudbury Neutrino Observatory*
J.F. Amsbaugh et al.
Nucl.Instrum.Meth.A579:1054-1080, (2007)
24. *Determination of the ν_e and total ^8B solar neutrino fluxes using the Sudbury Neutrino Observatory Phase I data set.*

B. Aharmim et al. (SNO Collaboration)
Phys. Rev. C 75, 045502 (2007)

23. *A Search for Neutrinos from the Solar hep Reaction and the Diffuse Supernova Neutrino Background with the Sudbury Neutrino Observatory*

B. Aharmim et al. (SNO Collaboration)
Astrophys.J.653:1545-1551 (2006)

22. *Search for the Invisible Decay of Neutrons with KamLAND*

T. Araki et al. (KamLAND Collaboration)
Phys.Rev.Lett.96:101802, (2006)

21. *Experimental Investigation of Geologically Produced Antineutrinos with KamLAND*

T. Araki et al. (KamLAND Collaboration)
Nature 436:499-503, (2005)

20. *A Search for Periodicities in the ^8B Solar Neutrino Flux Measured by the Sudbury Neutrino Observatory*

B. Aharmin et al. (SNO Collaboration)
Phys.Rev.D72:052010 (2005)

19. *Electron Energy Spectra, Fluxes, and Day-Night Asymmetries of B-8 Solar Neutrinos from Measurements with NaCl dissolved in the Heavy-Water Setector at the Sudbury Neutrino Observatory*

B. Aharmin et al. (SNO Collaboration)
Phys.Rev.C72:055502,2005. 45pp (2005)

18. *Measurement of Neutrino Oscillation with KamLAND: Evidence of Spectral Distortion,*

T. Araki et al. (KamLAND Collaboration)
Phys.Rev.Lett.94:081801, 1-5, (2005)

17. *Electron Antineutrino Search at the Sudbury Neutrino Observatory*

B. Aharmin et al. (SNO Collaboration)
Phys.Rev.D70:093014,1-7 (2004)

16. *A High-Sensitivity Search for Electron Antineutrinos from the Sun and Other Sources at KamLAND,*

K. Eguchi et al. (KamLAND Collaboration)
Phys.Rev.Lett.92:071301,1-5 (2004)

15. *Constraints on Nucleon Decay via "Invisible" Modes from the Sudbury Neutrino Observatory,*

S.N. Ahmed et al. (SNO Collaboration),
Phys.Rev.Lett.92:102004,1-4 (2004)

14. *Measurement of the Total Active ^8B Solar Neutrino Flux at the Sudbury Neutrino Observatory with Enhanced Neutral Current Sensitivity,*

S.N. Ahmed et al. (SNO Collaboration)
Phys.Rev.Lett.92:181301,1-5 (2004)

13. *First Results from KamLAND: Evidence for Reactor Antineutrino Disappearance,*

K. Eguchi et al. (KamLAND Collaboration)
Phys.Rev.Lett.90:021802,1-6 (2003), LBNL-5193

12. *Constraining the Leading Weak Axial Two Body Current By SNO and Super-Kamiokande,*

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9. *Resolving the Solar Neutrino Problem: Evidence for Massive Neutrinos in the Sudbury Neutrino Observatory*,
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3. *Probability of a Solution to the Solar Neutrino Problem Within the Minimal Standard Model*,
K.M. Heeger and R.G.H. Robertson
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2. *Ground State Properties of Exotic Si, S, Ar, Ca Isotopes*,
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Books & Book Chapters

1. *Neutrino Oscillation Physics with KamLAND: Reactor Antineutrinos and Beyond*,
K.M Heeger, chapter in review book on neutrino oscillations by World Scientific,
edited by J. Thomas and T. Vahle. World Scientific (2008)

Conference Proceedings

9. *CUORE and beyond: bolometric techniques to explore inverted neutrino mass hierarchy*
D.R. Artusa et al. (CUORE Collaboration)
Proceedings to TAUP 2013
arXiv:1407.1094 (2013)

8. *Status of the Cryogen-free Cryogenic System for the CUORE Experiment*
A. Nucciotti et al.
14th International Workshop on Low-Temperature Detectors (LTD-14), (2012)

7. *Reactor Neutrino Oscillation Experiments: Recent Results and Future Prospects*
K.M. Heeger,
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6. *Evidence for Neutrino Mass: A Decade of Discovery*
K.M. Heeger,
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5. *Towards a Precision Measurement of θ_{13} with Reactor Neutrinos: Initiatives in the United States*,
K.M. Heeger,
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Proceedings to 8th International Workshop on Topics in Astroparticle and Underground Physics (TAUP
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2. *Background Studies for the Neutral Current Detector Array in the Sudbury Neutrino Observatory*,
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K.M. Heeger and R.G.H. Robertson
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White Papers, Reports, and Other Publications

35. *The DUNE Far Detector Interim Design Report, Volume 3: Dual-Phase Module*

B. Abi et al. (DUNE Collaboration)
arXiv:1807.10340

34. *The DUNE Far Detector Interim Design Report, Volume 2: Single-Phase Module*
B. Abi et al. (DUNE Collaboration)
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33. *The DUNE Far Detector Interim Design Report Volume 1: Physics, Technology and Strategies*
B. Abi et al. (DUNE Collaboration)
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32. *The Single-Phase ProtoDUNE Technical Design Report*
B. Abi et al. (DUNE Collaboration)
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31. *Applied Antineutrino Physics 2015 - Conference Summary*
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arXiv:1602.04759 (2016)

30. *Long-Baseline Neutrino Facility (LBNF) and Deep Underground Neutrino Experiment (DUNE) Conceptual Design Report Volume 1: The LBNF and DUNE Projects*
R. Acciarri et al. (DUNE Collaboration)
arXiv:1601.05471 (2016)

29. *Long-Baseline Neutrino Facility (LBNF) and Deep Underground Neutrino Experiment (DUNE) Conceptual Design Report Volume 4: The DUNE Detectors at LBNF*
R. Acciarri et al. (DUNE Collaboration)
arXiv:1601.02984 (2016)

28. *Long-Baseline Neutrino Facility (LBNF) and Deep Underground Neutrino Experiment (DUNE) Conceptual Design Report Volume 2: The Physics Program for DUNE at LBNF*
R. Acciarri et al. (DUNE Collaboration)
arXiv:1512.06148 (2015)

27. *Reaching for the Horizon: The 2015 Long Range Plan for Nuclear Science*
D. Geeseman et al. (2015)

26. *R&D towards CUPID (CUORE Upgrade with Particle Identification)*
G. Wang et al. (CUPID Collaboration)
arXiv:1504.03612 (2015)

25. *CUPID: CUORE (Cryogenic Underground Observatory for Rare Events) Upgrade with Particle Identification*
G. Wang et al. (CUPID Collaboration)
arXiv:1504.03599 (2015)

24. *The Intermediate Neutrino Program*
Community report from the WINP workshop, <http://www.bnl.gov/winp/>
C. Adams et al.
arXiv:1503.06637 (2015)

23. *Planning the Future of U.S. Particle Physics (Snowmass 2013): Chapter 7: Underground Laboratory Capabilities*

M.G. Gilchriese, P. Cushman, K. Heeger, J. Klein, K. Scholberg, H. Sobel, M. Witherell.
arXiv:1401.6115 (2014)

22. *PROSPECT - A Precision Reactor Oscillation and Spectrum Experiment at Very Short Baselines*
Z. Djurcic et al (PROSPECT Collaboration)
arXiv:1309.7647 (2013)

21. *Neutrinos*
Report of the Community Summer Study 2013 (Snowmass) Intensity Frontier Neutrino Working Group
<http://arxiv.org/abs/1310.4340>

20. *Neutrino mass hierarchy determination and other physics potential of medium-baseline reactor neutrino oscillation experiments*
S. Kettel et al.
arXiv:1307.7419 (2013)

19. *Scientific Opportunities with the Long-Baseline Neutrino Experiment*
C. Adams et al (LBNE Collaboration)
arXiv:1307.7335 (2013)

18. *Discovering the New Standard Model: Fundamental Symmetries and Neutrinos*
V. Cianciolo et al.,
arXiv:1212.5190 (2012)

17. *Fundamental Physics at the Intensity Frontier*
J.L. Hewett et al.,
arXiv:1205.2671 (2012)

16. *Light Sterile Neutrinos: A White Paper*
K.N. Abazajian et al.,
arXiv:1204.5379 (2012)

15. *The Long Baseline Neutrino Experiment (LBNE) Water Cherenkov Detector (WCD) Conceptual Design Report (CDR)*
T. Akiri et al. (LBNE Collaboration),
arXiv:1204.2295 (2012)

14. *T-1020 NaI Crystal Test for DM-Ice*
R. Maruyama et al, FERMILAB-PROPOSAL-1020.
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13. *Digital Access to APS Meetings: Serving our Overseas Members in the Information Age*
K.M. Heeger
APS Forum on International Physics Newsletter, September 2011
<http://www.aps.org/units/fip/newsletters/201109/heeger.cfm>

12. *The 2010 Interim Report of the Long-Baseline Neutrino Experiment Collaboration Physics Working Groups,*
T. Akiri et al. (LBNE Collaboration),
arXiv:1110.6249 (2011)

11. *Digital Access and Worldwide Participation in APS Meetings*
K. Heeger and H. Newman,
APS Committee on International Scientific Affairs (CISA),

Internal White Paper to APS Board (2010)

10. *Daya Bay Project - Technical Design Report*

X. Guo et al. (Daya Bay Collaboration)

<http://dayabay.bnl.gov/private/documents/cdr/> 353pp (2007)

9. *A Precision Measurement of the Neutrino Mixing Angle θ_{13} using Reactor Antineutrinos at Daya Bay*

X. Guo et al. (Daya Bay Collaboration)

arXiv: hep-ex/0701029 156pp (2007)

8. *Proposal for an Experimental Program in Neutrino Physics and Proton Decay in the Homestake Laboratory*

M. Diwan et al.

arXiv: hep-ex/0608023, 47pp (2006)

7. *White Paper Report on Using Nuclear Reactors to Search for a Value of θ_{13}*

K. Anderson et al. (International θ_{13} Working Group)

arXiv:hep-ex/0402041, 167pp (2004)

6. *Report of the APS Neutrino Study Reactor Working Group*

E. Abouzaid et al.,

<http://www.aps.org/neutrino/>

LBNL- 56599, 53pp (2004)

5. *APS Neutrino Study - Report of the Solar and Atmospheric Neutrino Working Group*

H. Back et al.,

LBNL-56613, <http://www.aps.org/neutrino/>

arXiv: hep-ex/0412016, 70pp (2004)

4. *Letter of Intent for a Neutrino Oscillation Experiment at JHF*

Y. Hayati et al.

<http://neutrino.kek.jp/jhfnu/loi/loi.v2.030528.pdf>, 24pp (2003)

3. *Neutrino Science at LBNL: Present Program and Future Options*

R.N. Cahn et al. (LBNL Neutrino Working Group),

2003, LBNL-52410, 53pp (2003)

2. *Big World of Small Neutrinos (in Particle Physics in Plain English)*

K.M. Heeger

Lepton-Photon 2003,

LBNL-53540,

<http://conferences.fnal.gov/lp2003/forthepublic/>

1. *Letter of Intent to Build an Off-Axis Detector to Study $\nu_{\mu} \rightarrow \nu_e$ Oscillations with the NuMI Neutrino Beam*

D. Ayres et al.

arXiv: hep-ex/0210005, 111pp (2002)

Invited Conference Talks

70. *PROSPECTS in Neutrino Physics*

PACIFIC 2018.9

Gump Station, Morea, August 31-September 6, 2018

69. *Recent Results from PROSPECT*
6th Symposium on Neutrinos and Dark Matter
IBS HQ, Daejeon, Korea, June 29-July 4, 2018
68. *Reactor Neutrinos – Recent Results and Future Prospects*
IPA 2017
Madison, WI, USA, May 9, 2017
67. *Exploring the (Invisible) Universe at the new Yale Wright Laboratory*
Yale Science and Engineering Forum
New Haven, CT, USA, May 3, 2017
66. *Recent Results from Daya Bay*
PINS 2017
SLAC, Stanford, CA, USA, March 13-17, 2017
65. *PROSPECT – Precision Oscillation and Spectrum Experiment*
Lake Louise Winter Institute 2017
Lake Louise, Alberta, Canada, February 19-25, 2017
64. *Reactor Neutrinos: Recent Results and Future Prospects*
Inauguration of TD Lee Library and Institute
Shanghai, China, November 28-29, 2016
63. *Neutrino Oscillation with Reactors and Radioactive Sources*
CPAD Instrumentation Frontier “New Technologies for Discovery”
Pasadena, CA, USA, October 8-10, 2016
62. *Status of the Reactor Neutrino Anomaly*
EIPC, Lepton-Nucleus Scattering--XIV
Elba, Italy, June 27-July 1, 2016
61. *Short-baseline Reactor Experiments*
Frontiers of Liquid Scintillator Technology (FROST)
FNAL, IL, USA, March 18-20, 2016
60. *Reactor Neutrino Experiments*
Aspen Winter Conference
Aspen, CO, USA, January 11-16, 2016
59. *Investigation of Double Beta Decay with Bolometers*
Neutrino Mass: From the Terrestrial Laboratory to the Cosmos
University of Massachusetts, Amherst Center for Fundamental Interactions
Amherst, MA, USA, December 14-16, 2015
58. *PROSPECT – A Precision Oscillation and Spectrum Experiment*
Workshop on Applied Antineutrino Physics 2015
Arlington, VA, December 7, 2015
57. *Search for Neutrinoless Double Beta Decay: Recent Results and Future Prospects*
CIPANP 2015
Vail, CO, USA, May 19-24, 2015

56. *Reactor Neutrinos: Recent Results and Future Prospects*

IPA 2015, IceCube Particle Astrophysics Symposium
Madison, WI, USA, May 4-6, 2015

55. *Reactor Neutrinos: Status and Outlook*

KITP Workshop: Neutrinos: Recent Developments and Future Challenges
KITP, Santa Barbara, CA, USA, November 4, 2014

54. *What Coordination is Necessary for Planning the Short-Baseline Neutrino Program?*

ICFA Neutrino Panel Mini Workshop, roundtable discussion
FNAL, IL, USA, January 30, 2014

53. *Probing Neutrino Oscillations at Very Short Baselines with Reactors and Radioactive Sources*

NNN13: International Workshop on Next-generation Nuclear Decay and Neutrino Detectors
Kavli IPMU, Tokyo, Japan, November 11-13, 2013

52. *Prospects for Measuring the Reactor Neutrino Flux and Spectrum*

Institute for Nuclear Theory,
Seattle, WA, USA, November 8, 2013

51. *Experiments with Reactor Antineutrinos – The decade after the Solar Neutrino Problem*

Perspectives on Fundamental Symmetries and Neutrinos,
Seattle, WA, USA, September 6, 2013

50. *A Discovery Program of Neutrino Experiments,*

Snowmass on the Mississippi - Community Summer Study 2013
Minneapolis, MN, July 30, 2013

49. *Precision Studies at the Neutrino Frontier*

APS April Meeting 2013
Denver, CO, USA, April 13, 2013

48. *Reactor and Solar Neutrino Experiments – Recent Highlights and Future Opportunities*

Deutsche Physikalische Gesellschaft (plenary talk)
Dresden, Germany, March 4, 2013

47. *Experiments with Reactor Neutrinos – Recent Discoveries and Future Prospects*

Lake Louise Winter Institute (plenary lecture)
Lake Louise, Alberta, Canada, February 20, 2013

46. *Probing Neutrino Oscillations at Very Short Baselines*

Aspen Winter Workshop – New Directions in Neutrino Physics
Aspen, Co, USA, February 8, 2013

45. *Observation of Electron Antineutrino Disappearance at Daya Bay*

24th Kavli Frontiers of Science Symposium
National Academies of Sciences, Irvine, CA, USA, November 2-4, 2012

44. *Opportunities in Nuclear, Particle, and Astrophysics*

First CPS-APS Joint Session, CPS Annual Fall Meeting
Guangzhou, China, September 22, 2012

43. *Neutrino Experiments*

Nuclear Science Advisory Subcommittee

Washington, DC, USA, September 7, 2012

42. *Neutrino Oscillations and Interactions*

DNP Town Meeting on Fundamental Symmetries and Neutrinos
Chicago, IL, USA, August 10-11, 2012

41. *Recent Progress in Neutrino Physics*

Latino-American Workshop on High Energy Physics: Particles and Strings
Havana, Cuba, 15-21 July 2012 (*declined*)

40. *Neutrino Oscillation Studies with Reactor Neutrinos: Recent Results and Future Prospects*

NDM12–International Symposium on Neutrinos and Dark Matter in Nuclear Physics,
Nara, Japan, June 11-15, 2012

39. *Future Reactor Experiments*

Neutrino 2012–XXV International Conference on Neutrino Physics and Astrophysics,
Kyoto, Japan, June 3-9, 2012

38. *CUORE: Bolometric Search for Neutrinoless Double Beta Decay*

SNOLAB Opening Workshop,
SNOLAB, Sudbury, ON, Canada, May 16, 2012

37. *Observation of Electron Antineutrino Disappearance at Daya Bay and the Future of θ_{13}*

European Strategy for Neutrino Oscillation Physics – A Town Meeting
CERN, Geneva, Switzerland, May 14, 2012

36. *Precision Reactor Neutrino Physics with the Daya Bay Experiment*

Symposium on Electroweak Nuclear Physics,
Duke University, NC, USA, March 8-9, 2012

35. *Oscillation Measurements with Reactor Neutrinos: Recent Discoveries and Future Prospects*

13th Conference on Astroparticle, Particle, Space Physics, and Detectors for Physics Applications
(ICATPP11)
Villa Olmo, Como, Italy, October 3-7, 2011

34. *Antineutrino Detectors for a High-Precision Measurement of θ_{13} at Daya Bay*

Technology and Instrumentation in Particle Physics 2011 (TIPP2011)
Chicago, IL, USA, June 9-14, 2011

33. *Reactor Neutrino Oscillation Experiments: Status and Prospects*

Short Baseline Neutrino Workshop (SBNW11)
Fermilab, Batavia, IL, USA, May 12-14, 2011

32. *Systematics in Reactor Neutrino Oscillation Experiments*

12th International Workshop on Neutrino Factories, Superbeams and Beta Beams
Mumbai, India, October 20-25, 2010

31. *Status and Prospects of Neutrino Oscillation Experiments*

International Conference of Nuclear Physics, INPC2010,
Vancouver, BC, Canada, July 4-9, 2010

30. *Reactor Neutrino Experiments*

Workshop on "Low Energy" Neutrino Physics and Astrophysics with IceCube's DeepCore Sub-Array"

State College, PA, USA, July 1-2, 2010

29. *Probing Neutrino Mixing with Non-Accelerator Experiments*

APS April/AAPT Meeting 2010

Washington, DC, USA, February 13-17, 2010

28. *Reactor Neutrino Experiments: Recent Results and Future Prospects*

CTP International Conference on Neutrino Physics in the LHC Era,

Luxor, Egypt, November 15-19, 2009

27. *Understanding Neutrino Mass and Mixing with Low-Energy Experiments*

Inaugural Fall Meeting of the APS Prairie Section

Iowa City, Iowa, November 12-14, 2009

26. *A High-Precision Measurement of θ_{13} with the Daya Bay Reactor Neutrino Experiment*

TAUP 2009, International Conference on Topics in Astroparticle and Underground Physics

Laboratori Nazionali del Gran Sasso, Italy, July 1-5, 2009

25. *Understanding Neutrino Mass and Mixing with Low-Energy Experiments*

4th International Symposium on Symmetries in Subatomic Physics

Taipei, Taiwan, June 2-5, 2009

24. *Antineutrino Detectors for a High-Precision Measurement of the Neutrino Mixing Angle θ_{13} at Daya Bay*

TIPP09, Technology and Instrumentation in Particle Physics

Tsukuba, Japan, March 12-17, 2009

23. *Precision Measurements of Neutrino Oscillation Parameters with Reactor Neutrinos*

Les Rencontres de Physique de la Vallée d'Aoste

La Thuile, Aosta Valley, Italy, March 1-7, 2009

22. *Reactor Neutrino Experiments: Recent Results and Future Prospects*

TAUP 2007, International Conference on Topics in Astroparticle and Underground Physics

Sendai, Japan, September 11-15, 2007

21. *Search for the Neutrino Mixing Angle θ_{13}*

APS April Meeting

Jacksonville, FL, USA, April 14-17, 2007

20. *Future Reactor Neutrino Experiments to Measure $\sin^2 2\theta_{13}$*

Workshop on Next Generation Nucleon Decay and Neutrino Detectors 2006

Seattle, WA, USA, September 21-23, 2006

19. *Evidence of New Physics in Reactor and Solar Neutrino Experiments*

VietNam 2006 6th Rencontres du Vietnam

Hanoi, Vietnam, August 6 - 12, 2006

18. *Future θ_{13} Reactor Experiments*

Neutrino 2006

Santa Fe, NM, USA, June 13-19, 2006

17. *Measuring $\sin^2 2\theta_{13}$ with Reactor Antineutrinos*

US-Japan Seminar on "Double Beta Decay and Neutrino Mass",

2nd Joint Meeting of the Nuclear Physics Divisions of the APS and The Physical Society of Japan
Maui, HI, USA, September 17-20, 2005

16. *Measuring $\sin^2 2\theta_{13}$ with Reactor Antineutrinos at Daya Bay – An Underground Laboratory for a Multidetector Experiment*

Workshop on Exploring the Physics Frontier at the Deep Underground Laboratories,
Seattle, WA, USA, June 23-24, 2005

15. *Experimental Evidence for Neutrino Mass*

SeeSaw25, International Conference on Seesaw Mechanism
Paris, France, June 10-11, 2004

14. *Recent Discoveries in Neutrino Oscillation Physics & Prospects for the Future*

Opening Talk at the German Physical Society Meeting
Mainz, Germany, March 29 - April 1, 2004

13. *The Case for a Reactor Neutrino Disappearance Experiment to Measure θ_{13}*

Workshop on Future Low-Energy Neutrino Experiments
Niigata, Japan, March 20, 2004

12. *Results from KamLAND and Future Reactor Neutrino Experiments*

Les Rencontres de Physique de la Vallée d'Aosta,
La Thuile, France, February 29- March 6, 2004

11. *Towards a Precision Measurement of θ_{13} with Reactor Neutrinos in the US*

NOON2004, Workshop on Neutrino Oscillation and their Origin
Tokyo, Japan, February 11-15, 2004

10. *A Reactor Neutrino Experiment at Diablo Canyon*

Workshop on Future Low-Energy Neutrino Experiments
Munich, Germany, October 9-11, 2003

9. *Reactor Neutrino Experiments: KamLAND and Diablo Canyon*

Institute for Nuclear Particle Astrophysics and Cosmology (INPAC Meeting)
San Diego, October 3-5, 2003

8. *The Future of Reactor Neutrino Oscillation Experiments*

Yamada Symposium on Neutrinos and Dark Matter in Nuclear Physics (NDM03)
Nara, Japan, June 9-14, 2003

7. *Reactor Neutrino Measurement of θ_{13}*

Conference on the Intersections of Particle and Nuclear Physics
New York, NY, USA, May 19-24, 2003

6. *APS DNP Dissertation Award in Nuclear Physics Prize Talk:*

Evidence for Neutrino Oscillations from SNO and KamLAND

APS April Meeting

Philadelphia, USA, April 5-8, 2003

5. *The Resolution to the Solar Neutrino Problem: Model-Independent Evidence for Neutrino Flavor Change at SNO*

XXXVIIIth Rencontres de Moriond: Electroweak Interactions and Unified Theories
Les Arcs, France, March 15-22, 2003

4. *Evidence for Neutrino Oscillations from SNO and KamLAND*

KITP Conference on “Neutrinos: Data, Cosmos, and Planck Scale”
Santa Barbara, USA, March 3-7, 2003

3. *Oscillation Measurements in the Solar Δm^2 Region Including KamLAND*

International Workshop on Neutrinos and Subterranean Science,
Washington, DC, USA, September 18-21, 2002

2. *Solar Neutrino Detection in KamLAND*

International Workshop on Neutrinos and Subterranean Science,
Washington, DC, USA, September 18-21, 2002

1. *First Results from the Sudbury Neutrino Observatory (SNO),*

Euroconference on Neutrino Masses and Mixing
Les Houches, France, June 17-21, 2001

Contributed Conference Presentations

32. *Towards a Precise Measurement of the ^{235}U Antineutrino Spectrum with PROSPECT*

Fifth Joint Meeting of Nuclear Physics Divisions of DNP and JPS
Hawaii, HI, USA, October 23-27, 2018

31. *Towards a Precise Measurement of the ^{235}U Antineutrino Spectrum with PROSPECT*
Neutrino 2018

XXVIII International Conference on Neutrino Physics and Astrophysics
Heidelberg, June 4-9, 2018

30. *PROSPECT: A Precision Reactor Oscillation and Spectrum Experiment*

14th International Conference on Topics in Astroparticle and Underground Physics (TAUP15)
Torino, Italy, September 7-11, 2015

29. *Measurement of the Reactor Antineutrino Flux and Spectrum at Daya Bay*

Joint Meeting of Nuclear Physics Divisions of DNP and JPS
Hawaii, HI, USA, October 10, 2014

28. *First Data with the Daya Bay Antineutrino Detectors,*

12th International Conference on Topics in Astroparticle and Underground Physics (TAUP11)
Munich, Germany, September 5-9, 2011

27. *Search for Neutrinoless Double Beta Decay with CUORE,*

XXIV International Conference on Neutrino Physics and Astrophysics,
Athens, Greece, June 14-19, 2010

26. *Antineutrino Detectors for a High-Precision Measurement of the Neutrino Mixing Angle θ_{13} at Daya Bay,*

XXIV International Conference on Neutrino Physics and Astrophysics,
Athens, Greece, June 14-19, 2010

25. *Status and Sensitivity of the Daya Bay Reactor θ_{13} Experiment*

Third Joint Meeting of the Nuclear Physics Divisions of the American Physical Society and The Physical Society of Japan
Hawaii, HI, USA, October 13-17, 2009

24. *Energy Calibration of the CUORE Bolometric Double Beta Decay Experiment*
Japan-US seminar on Double Beta Decay and Neutrinos,
Hawaii, HI, USA, October 11-13, 2009
23. *Design, Simulation, and Performance of the Daya Bay Antineutrino Detectors*
APS April Meeting,
Denver, CO, USA, May 2-5, 2009
22. *A Low-Temperature Calibration System for the CUORE Bolometric Double Beta-Decay Experiment*
APS Meeting of the Division of Nuclear Physics (2008)
Oakland, CA, October 26, 2008
21. *A High-Precision Measurement of $\sin^2 2\theta_{13}$ with the Daya Bay Reactor Neutrino Experiment*
Division of Nuclear Physics Town Meeting for the NSAC Long Range Plan
Chicago, IL, January 20, 2007
20. *Measuring $\sin^2 2\theta_{13}$ with Reactor Antineutrinos at Daya Bay*
APS Meeting of the Division of Nuclear Physics (2006)
Nashville, TN, October 23, 2006
19. *Measuring $\sin^2 2\theta_{13}$ with Reactor Antineutrinos at Daya Bay*
Joint APS/JPS Meeting of the Division of Nuclear Physics (2005)
Maui, HI, September 25-28, 2005
18. *Full-Volume Calibration of KamLAND and Precision Measurement of Oscillation Parameters*
Joint APS/JPS Meeting of the Division of Nuclear Physics (2005)
Maui, HI, September 17-22, 2005
17. *Full-Volume Calibration in KamLAND*
APS Division of Nuclear Physics, Bulletin of the American Physical Society vol. 49, No.6 (2004)
Chicago, IL, October 27-30, 2004
16. *Measuring θ_{13} in a Reactor Neutrino Oscillation Experiment*
APS April Meeting, Bulletin of the American Physical Society vol. 49, No.2 (2004)
Denver, CO, USA, May 1, 2004
15. *Measuring θ_{13} with Reactors*
APS Division of Nuclear Physics, Bulletin of the American Physical Society vol. 48, No.8 (2003)
Tucson, AZ, USA, October 31, 2003
14. *Reactor Neutrino Measurement of θ_{13}*
TAUP 2003 - Topics in Astroparticle and Underground Physics
Seattle, WA, USA, September 5-8, 2003
13. *Reactor Neutrino Measurement of θ_{13}*
Lepton Photon Conference (poster)
Fermilab, IL, USA, August 11-8, 2003
12. *Measuring the Neutrino Interaction Rates in SNO for Variable Fiducial Volumes*
APS April Meeting, Bulletin of the American Physical Society vol. 48, No.2 (2003)
Albuquerque, NM, USA, April 20-23, 2002

11. *Determination of the Charged-Current Rate and Energy Scale in SNO by Means of a Calibration Source-Independent Analysis of the Energy Spectrum*

APS Division of Nuclear Physics, Bulletin of the American Physical Society vol. 46, no.7 (2001)
Maui, Hawaii, USA, October 17-20, 2001

10. *Neutral-Current Detection in the Sudbury Neutrino Observatory Using Ultra-Low-Background ^3He Proportional Counters,*

EuroConference on Neutrinos in the Universe: Frontiers in Astroparticle Physics and Cosmology
Lenggries, Germany, September 30, 2001

9. *Background Studies for the Neutral Current Detector Array in SNO,*

APS Division of Nuclear Physics, Bulletin of the American Physical Society vol. 45, No.5 (2000)
Williamsburg, VA, USA, October 4-7, 2000

8. *High-Voltage Microdischarge in Ultra-Low-Background ^3He Proportional Counters,*

IEEE Nuclear Science Symposium
Seattle, Washington, USA, October 24-30, 1999

7. *Background Studies for the Neutral Current Detector Array in SNO,*

TAUP99 - Topics in Astroparticle and Underground Physics
Paris, France, September 5-10, 1999

6. *Neutral Current Detection in the Sudbury Neutrino Observatory,*

National Nuclear Physics Summer School, UCSD
San Diego, California, USA, June 28-July 9, 1999

5. *Model-Independent Constraints on Neutrino Mixing from Solar Neutrinos,*

APS Centennial Meeting, Bulletin of the American Physical Society 44, 1307 (1999)
Atlanta, Georgia, USA, March 20-26, 1999

4. *In Situ Determination of Backgrounds from Neutral Current Detectors in the Sudbury Neutrino Observatory,*

APS Division of Nuclear Physics, Bulletin of the American Physical Society 43, 1549 (1999)
Santa Fe, New Mexico, USA, October 28-31, 1998

3. *A Model Independent Analysis of the Solar Neutrino Anomaly,*

International School of Nuclear Physics, 19th Course
Erice, Sicily, 16-24 September, 1997

2. *Model-Independent Analysis of the Solar Neutrino Anomaly,*

APS Division of Nuclear Physics, Bulletin of the American Physical Society 42, 1679 (1997)
Whistler, BC, Canada, October 5-8, 1997

1. *The Energy Spectrum of ^8B Neutrinos and the Solar Neutrino Problem,*

APS Division of Nuclear Physics, Bulletin of the American Physical Society 42, 1639 (1997)
Whistler, BC, Canada, October 5-8, 1997

Public Science, Outreach, and Arts

8. *Neutrinos and the Invisible Universe*

CT Stargazing Party
September 8, 2018

7. Pathways to Science: “Exploring the Invisible Universe”

<https://wlab.yale.edu/gallery/yale-pathways-science-discover-invisible-universe-wright-lab-may-5-2018>

Wright Laboratory, Yale University, May and July 2018

6. Nominated as a speaker for *Inspiring Yale 2016*

<http://www.inspiringyale.com/gsas-sciences>

5. *Neutrinos – Chasing The Ghost Particles in our Universe*

Tilde Science Café, <http://www.tildecfe.org>

Branford, CT, USA, December 5, 2015

5. *Art at the Yale Wright Laboratory*

Various art projects carried out jointly with Yale art students, inspired by the decommissioned accelerator of the Wright Nuclear Structure Laboratory, 2015

<http://wlab.yale.edu/arts>

4. *Neutrinos - Ghost Particles in our Universe,*

Science Saturdays – fun science lectures for kids, Yale University

New Haven, CT, USA, October 19, 2013

3. *Neutrinos and Dark Matter – The Next Frontier at the Wright Lab,*

Open House of the Yale Wright Laboratory, Yale University

New Haven, CT, USA, October 12, 2013

2. *Hunting Invisible Ghosts in the Universe*

Madison Science Pub, Wisconsin Citizens for Science, <http://madsciencepub.org/>

Madison, WI, USA, October 31, 2010

1. *From the Cultural Revolution to Nuclear Power: The Rise of Science and Technology in China*

Rotary Club Madison West

Madison, WI, USA, June 10, 2010

Colloquia and Seminars

93. DESY Zeuthen, April 2019 (colloquium)

92. DESY, April 2019 (colloquium)

91. Stony Brook University, March 11, 2019 (seminar)

90. Brookhaven National Laboratory, January 11, 2018 (seminar)

89. University of Illinois at Urbana-Champaign, November 29, 2017 (colloquium)

88. Oak Ridge National Laboratory, September 6, 2017 (seminar)

87. University of Toronto, April 24, 2017 (seminar)

86. Fermi National Laboratory, September 15, 2016 (seminar)

85. University of Washington, CENPA, March 1, 2015 (seminar)

84. Yale University, CT, USA, October 19, 2015 (colloquium)

83. Brandeis University, MA, USA, October 13, 2015 (colloquium)

82. Yale University, CT, USA, March 27, 2015 (colloquium)

81. Muenster University, Muenster, Germany, April 10, 2014 (colloquium)

80. Penn State University, State College, PA, December 12, 2013 (colloquium)
79. Yale University, New Haven, CT, September 30, 2013 (seminar)
78. University of Massachusetts, Amherst, MA, September 13, 2013 (seminar)
77. Brookhaven National Laboratory, Upton, NY, USA, March 28, 2013 (seminar)
76. Argonne National Laboratory, Physics Division, IL, USA, March 18, 2013 (seminar)
76. National Institute of Standards and Technology (NIST), MD, USA, March 15, 2013 (seminar)
75. University of Wisconsin, Madison, WI, USA, February 25, 2013 (undergraduate colloquium)
75. Technical University Dresden, Germany, November 27, 2012 (colloquium)
74. Ohio State University, Columbus, OH, November 21, 2012 (colloquium)
73. Ohio State University, CCAPP, Columbus, OH, November 20, 2012 (seminar)
72. Simon Fraser University, Burnaby, BC, Canada, November 9, 2012 (colloquium)
71. University of British Columbia, Vancouver, BC, Canada, November 8, 2012 (colloquium)
70. University of Victoria, Victoria, BC, Canada, November 7, 2012 (colloquium)
69. University of Alberta, Edmonton, Alberta, Canada, October 19, 2012 (colloquium)
68. University of North Carolina, Chapel Hill, NC, USA, August 27, 2012 (colloquium)
67. NSAC Fundamental Symmetries Town Meeting, Chicago, IL, USA, August 10-11, 2012 (invited talk)
66. Oak Ridge National Laboratory, Oak Ridge, TN, USA, July 5, 2012 (seminar)
65. Lawrence Livermore National Laboratory, CA, USA, May 23, 2012 (seminar)
64. University of Rome, Italy, May 4, 2012 (seminar)
63. Stony Brook University, NY, USA, May 1, 2012 (seminar)
62. University of Maryland, MD, USA, April 18, 2012 (seminar)
61. Fermi National Accelerator Laboratory, IL, USA, March 23, 2012 (seminar)
61. University of Wisconsin, WI, USA, March 13, 2012 (seminar)
60. Yale University, CT, USA, February 11, 2012 (colloquium)
59. National Institute of Standards and Technology (NIST), MD, USA, October 2011 (seminar)
58. University of Washington, CENPA, WA, USA, July 2011 (seminar)
57. Shanghai Jiao Tong University, China, May 20, 2011 (seminar)
56. Shanghai Jiao Tong University, China, May 18, 2011 (colloquium)
55. UC Irvine, Orange, CA, USA, April 21, 2011 (seminar)
54. University of Wisconsin, Madison, WI, USA, February 8, 2011 (undergraduate colloquium)
53. SLAC National Accelerator Laboratory, May 11, 2010 (seminar)
52. University of Illinois at Urbana-Champaign, IL, USA, April 23, 2010 (seminar)
51. Yale University, New Haven, CT, USA, March 1, 2010 (colloquium)
50. University of Wisconsin, Madison, WI, USA, January 26, 2010 (undergraduate colloquium)
49. Indiana University Cyclotron Facility (IUCF), Bloomington, IN, USA, December 11, 2009 (seminar)
48. Forschungszentrum Karlsruhe, Karlsruhe, Germany, November 20, 2009 (seminar)

47. University of Wisconsin, Madison, WI, USA, March 31, 2009 (undergraduate colloquium)
46. Columbia University, New York, NY, USA, February 16, 2009 (colloquium)
45. Technical University Munich (TUM), Munich, Germany, February 2, 2009 (colloquium)
44. Illinois Institute of Technology, Chicago, IL, USA, December 4, 2008 (colloquium)
43. Argonne National Laboratory, Physics Division, Chicago, IL, USA, May 23, 2008 (colloquium)
42. California Institute of Technology, Pasadena, CA, USA, February 7, 2008 (colloquium)
41. University of Wisconsin, Madison, WI, USA, February 5, 2008 (undergraduate colloquium)
40. University of Chicago, Enrico Fermi Institute, IL, USA, June 4, 2007 (seminar)
39. University of Wisconsin, Madison, WI, USA, April 24, 2007 (undergraduate colloquium)
38. Illinois Institute of Technology, Chicago, IL, USA, April 19, 2007 (colloquium)
37. Argonne National Laboratory, Physics Division, Chicago, IL, USA, December 11, 2006 (seminar)
36. University of Illinois Urbana-Champaign, Urbana, IL, USA, September 13, 2006 (seminar)
35. Harvard University, Cambridge, MA, March 14, 2006 (colloquium)
34. Lawrence Berkeley National Laboratory, Berkeley, CA, USA, February 23, 2006 (colloquium)
33. University of Washington, Seattle, WA, USA, February 2, 2006 (colloquium)
32. University of Wisconsin-Madison, Madison, WI, January 23, 2006 (seminar)
31. UC Berkeley, CA, USA, November 30, 2005 (seminar)
30. German National Academic Foundation, Berlin, Germany, September 2, 2005 (seminar)
29. SLAC, Menlo Park, CA, USA, July 7, 2005 (seminar)
28. University of Maryland, College Park, MD, USA, March 7, 2005 (seminar)
27. University of North Carolina at Chapel Hill, NC, USA, February 28, 2005 (colloquium)
26. Massachusetts Institute of Technology, Boston, MA, USA, February 11, 2005 (colloquium)
25. California Institute of Technology, Pasadena, CA, USA, January 18, 2005 (seminar)
24. University of Washington, Seattle, WA, USA, January 10, 2005 (colloquium)
23. Lawrence Berkeley National Laboratory, Nuclear Physics Forum, USA, December 16, 2004 (seminar)
22. Max-Planck Institute for Nuclear Physics, Heidelberg, Germany, November 25, 2004 (colloquium)
21. CENPA, University of Washington, Seattle, WA, USA, May 18, 2004 (seminar)
20. Case Western Reserve University, Cleveland, OH, USA, April 28, 2004 (colloquium)
19. Los Alamos National Laboratory, T-Division, Los Alamos, NM, USA, April 6, 2004 (seminar)
18. California Institute of Technology, Pasadena, CA, USA, December 5, 2003 (seminar)
17. Kansas State University, Manhattan, KS, USA, October 22, 2003 (colloquium)
16. San Luis Obispo Polytechnic State University, CA, USA, July 18, 2003, (seminar)
15. Harvard University, Cambridge, MA, USA, April 2, 2003 (colloquium)
14. John Hopkins University, Baltimore, MD, USA, February 28, 2003 (colloquium)
13. Laboratoire d'Annecy-le-Vieux de Physique des Particules (LAPP), Annecy, France
February 7, 2003 (colloquium)

12. Institute de Sciences Nucleaire (ISN), Grenoble, France, February 6, 2003 (colloquium)
11. Los Alamos National Laboratory, P-25, Los Alamos, NM, USA, January 6, 2003 (seminar)
10. University of Mainz, Mainz, Germany, June 5, 2002 (colloquium)
9. University of Wuppertal, Wuppertal, Germany, June 4, 2002 (colloquium)
8. University of Washington, Seattle, WA, USA, April 25, 2002 (colloquium)
7. University of Oregon, Eugene, OR, USA, January 14, 2002 (seminar)
6. University of Heidelberg, Particle Physics Seminar, December 4, 2001 (seminar)
5. University of Heidelberg, Philosophisches Kolloquium, November 30, 2001 (colloquium)
4. Forschungszentrum Karlsruhe, November 29, 2001 (seminar)
3. University of Illinois at Urbana-Champaign, IL, USA, November 14, 2001 (seminar)
2. Los Alamos National Laboratory, P-23, Los Alamos, NM, USA, November 6, 2001 (seminar)
1. Laboratoire d'Annecy-le-Vieux de Physique des Particules (LAPP), Annecy, France
June 22, 2001 (colloquium)

Employers

Since 2013

Yale University
Department of Physics
P.O. Box 208120
New Haven, CT 06520-8120

Phone: 203-432-3650

Fax: 203-432-6175

<http://physics.yale.edu>

2006-2013

University of Wisconsin
Physics Department
1150 University Ave, Chamberlin Hall
Madison, WI 53706, USA

Phone: 608-262-4526

Fax: 608-262-3077

<http://www.physics.wisc.edu>

2002-2006

Lawrence Berkeley National Laboratory
Physics Division
1 Cyclotron Rd. M/S 50-4049,
Berkeley, CA 94720, USA

Phone: 510-486-5421

Fax: 510-486-6003

<http://www.physics.lbl.gov/div-office/list-of-contacts.html>

1996-2002

University of Washington,
Department of Physics,
Center for Nuclear Physics and Astrophysics
Box 351560,
Seattle, WA 98195-1560, USA

Phone: 206-543-2770

Fax: 206-685-0635

<http://www.phys.washington.edu>

References

References are available upon request.