July 1, 2025

Rene A. Ong

Department of Physics and Astronomy
Knudsen 4-154A
University of California
Los Angeles, CA 90095, USA

+1 (310) 825-3622
rene@astro.ucla.edu

Education:

1987	Ph.D. Physics	Stanford University Ph.D. Thesis: *Measurement of the B Hadron Lifetime* Advisor: John A. Jaros
1983	M.S. Physics	Stanford University Advisor: Martin L. Perl
1981	B.S. Physics	University of Michigan Undergraduate Thesis: *Design of a Low Energy Electron Neutrino Beam* Advisor: Lawrence R. Sulak

Employment / Positions:

2020-	Distinguished Professor	Department of Physics and Astronomy University of California, Los Angeles
2023-2024	Visiting Scientist	INFN-Trieste Trieste, Italy
2001-2020	Professor	Department of Physics and Astronomy University of California, Los Angeles
2016	Visiting Professor	Institute for Cosmic Ray Research (ICRR) University of Tokyo, Kashiwa, Japan
2015	Visiting Scientist	INAF-Milano Milano, Italy
	Visiting Scientist	INFN-Padova, INFN- Bari Padova and Bari, Italy
2011	Directeur de Recherche 1	Laboratoire Leprince Ringuet (LLR) Ecole Polytechnique, Palaiseau, France
2010-2011	Ernest Kempton Adams Research Fellow	Department of Physics Columbia University

2005	Visiting Scholar	Department of Physics University of Michigan
1998-2001	Associate Professor	Department of Physics & Enrico Fermi Institute University of Chicago
1991-1998	W.W. Grainger Assistant Professor	Department of Physics & Enrico Fermi Institute University of Chicago
1988-1991	Robert R. McCormick Fellow	Enrico Fermi Institute University of Chicago
1987-1988	Postdoctoral Research Associate	Research Division Stanford Linear Accelerator Center
1980-1981	Research Assistant	Department of Physics University of Michigan
1980	Research Assistant	Physics Department Brookhaven National Laboratory
1979	Research Assistant	Space Physics Research Laboratory University of Michigan

Honors and Awards

- Ronald and Jeryl Abelmann Award for Undergraduate Teaching Excellence; Teacher of the Year, Dept. of Physics and Astronomy, UCLA, 2020-21
- Outstanding Teaching Award, Dept. of Physics and Astronomy, UCLA, 2017-2018
- *DESY Silberne Ehrennadel*, Deutsches Elektronen-Synchrotron, Hamburg, Germany, 2017
- Outstanding Teaching Award, Dept. of Physics and Astronomy, UCLA, 2016-2017 (2)
- Ernest Kempton Adams Research Fellow, Columbia University, 2010-11
- Outstanding Referee, American Physical Society, 2010
- Outstanding Teaching Award, Dept. of Physics and Astronomy, UCLA, 2007-2008
- Fellow, American Physical Society, 2003
- Outstanding Teaching Award, Dept. of Physics and Astronomy, UCLA, 2001-2002
- A.P. Sloan Foundation Fellow, 1992
- Robert R. McCormick Fellow, Enrico Fermi Institute, 1988
- James B. Angell Scholar, University of Michigan, 1981
- B.S. in Physics with Highest Distinction, University of Michigan, 1981
- Phi Beta Kappa, 1980
- William J. Branstrom Prize, University of Michigan, 1978
- Rackham Undergraduate Fellowship, University of Michigan, 1977-1981

Scientific Collaboration Leadership:

2014-2024	Co-Spokesperson, Cherenkov Telescope Array (CTA) Consortium
2014	Deputy Chair, CTA-US Steering Committee
2009-2013	Spokesperson, VERITAS Collaboration
2007-2009	Deputy Spokesperson, VERITAS Collaboration
2005-2007	Chair, VERITAS Executive Committee
1997-2007	PI, Solar Tower Atmospheric Cherenkov Effect Experiment (STACEE)

Research Grants:

Principal Investigator:

2022-2027 NASA, 80NSSC21K1877, *The GAPS Experiment: As Search for Dark Matter Using Low Energy Antiparticles*
$1,559,174

2021-2026 DOE, A22-1532-S007. *HEP Consortium for Advanced Training (UCLA lead)*
$201,925

2023-2026 NSF/SAO, SV1-41002, WoU-MMA: Operation of VERITAS in the Epoch 2022-2025
$43,464

2017-2022 NASA, NNX17AB45G, *The GAPS Experiment: A Search for Dark Matter Using Low Energy Antiprotons and Antideuterons (UCLA)*
$2,276,889

2020-2023 NSF/SAO, SV0-09009, *Operations of VERITAS in the Epoch 2019 to 2022*
$75,616

2019-2020 NSF/SAO, SV8-88014:2, *Equipment and Fabrication of the VERITAS Data Archive/Library (supplement)*
$31,023

2016-2020 NSF, PHY-1607491, *Particle Astrophysics with VERITAS and Development for CTA*
$1,427,925

2017-2019 NSF/SAO, SV8-88014, *Equipment and Fabrication of the VERITAS Data Archive/Library*
$43,280

2015-2016 NSF, PHY-1519145, *Particle Astrophysics with VERITAS and Defining Scientific Horizons for CTA*
$19,782

2013-2016 NSF, PHY-1307171, *Particle Astrophysics with VERITAS and Defining Scientific Horizons for CTA*
$1,444,782

2013-2015 NSF/SAO, SV4-82013, *Support for the Operation of VERITAS*
$55,093

2012-2016 NSF/SAO, SV2-82002:2, *Operation of VERITAS (supplement)*
$77, 434

2012-2013 NASA, NNX12AD49G, *An Indirect Search for Dark Matter Using Antideuterons: The GAPS Experiment (UCLA)*
$50,000

2011-2012 NSF/SAO, SV2-82002, *Operation of VERITAS*
$41,500

2010-2013 NSF, PHY-0969948, *Particle Astrophysics with VERITAS*
$1,426,211

2010-2011 NSF/SAO, SV8-1011, Operation of VERITAS in the period of 12/01/10 to 09/30/11
$47,266

2009-2012 NASA, NNX09AC13G, *An Indirect Search for Dark Matter Using Antideuterons: The GAPS Experiment (UCLA)*
$966,055

2007-2010 NSF, PHY-0653622, *Particle Astrophysics with VERITAS*
$1,245,525

2007-2009 NSF/SAO, SV7-77008, *Operation of VERITAS in the Epoch 2006-2009*
$103,533

2007-2008 NSF, PHY-0735031, *Particle Astrophysics with VERITAS*
$32,913

2006-2009 NSF, PHY-0601203, *High-energy Gamma-ray Astrophysics with STACEE*
$287,850

2004-2007 NSF, PHY-0354941, *Particle Astrophysics with VERITAS*
$916,609

2003-2007 NSF/SAO, SV74005, *VERITAS Phase I: A Cherenkov Telescope for Gamma-Ray Astrophysics*
$271,216

2003-2006 NSF, PHY-0244928, STACEE: *Gamma-Ray Astrophysics Between 50 and 1000 GeV*
$1,095,468

2002-2005 NSF, PHY-0296052, *High Energy Gamma-Ray Astrophysics with STACEE*
$863,861

2002-2003 NSF, PHY-0218581, *High Energy Gamma-Ray Astrophysics with STACEE*
$135,002

2000-2002 NSF, PHY-MRI-0079793, *Development and Acquisition of Electronic Instrumentation for the VERITAS Consortium Array of High Energy Gamma-Ray Telescopes*
$550,204

2003-2004 NSF/SAO, SV3-73011, *VERITAS Phase I: A Cherenkov Telescope for Gamma-Ray Astrophysics*
$15,239

2000-2002 NSF, PHY-0070953, High *Energy Gamma-Ray Astrophysics with STACEE*
$776,195

1997-2000 NSF, PHY-9722655, STACEE: *A Low Threshold Atmospheric Cherenkov Experiment for Gamma Ray Astrophysics*
$952,893

Co-PI/Co-Investigator:

2022-2026 NSF, PHY-2209605, WoU-MMA: *High-Energy Astrophysics with VERITAS and Towards Realization of CTA*
$1,249,826

2019-2022 NSF, PHY-1913798, *Particle Astrophysics with VERITAS and pSCT Pathfinder towards CTA*
$1,208,516

2017-2022 NASA, 15-APRA15-0083, *The GAPS Experiment: A Search for Dark Matter Using Low Energy Antiprotons and Antideuterons*
$7,841,000

2012-2019 NSF, PHY-MRI-1229792, *MRI Consortium: Development of a Novel Telescope for Very High-Energy Gamma-Ray Astrophysics*
$2,548,939

2013-2014 NASA, FERMI12-0044, *A Multi-Wavelength Study of Gamma-Ray Production in Cygnus X-3*
$86,488

2011-2012 FERMI10-C4-0023, *Gamma-ray Production in Cygnus X-3: A Multiwavelength Perspective*
$76,244

2010-2014 NASA, APRA10-050, *An Indirect Search for Dark Matter Using Antideuterons: The GAPS Experiment*
$3,563,319

2010-2013 NSF, PHY-MRI-0990242, *MRI-R2 Consortium: Development of Improved Instrumentation for the VERITAS Gamma-Ray Observatory*
$1,633,490

2009-2010 NASA, FERMI08-0061, *Correlated Analysis of VERITAS and FERMI Data in the Cygnus Region of the Galactic Plane*
$80,000

1997-1999 NSF, PHY-9724176, *BLANCA: Broad Lateral Non-Imaging Cherenkov Array*
$49,049

1996-2000 NSF, PHY-MRI-9512191, *Hardware Procurement and Software Development for a Multi-Institutional Mass Storage System*
$1,642,649

1994-1997 NSF, PHY-9322583, *Chicago Air Shower Array*
$1,605,960

Professional Activities

- *Reviewer (Journals):*
  Nature, Science, Physical Review Letters, Physics Letters, Physical Review D, Astrophysical Journal, Astronomy and Astrophysics, Astroparticle Physics, Nuclear Instruments and Methods, Particle Data Group

- *Reviewer (Agencies):*
  National Science Foundation (PHY, AST, OPP, INT)
  Department of Energy (Office of Science)
  NASA
  Research Corporation
  Cottrell Foundation
  Guggenheim Foundation
  U.S.-Israel Binational Science Foundation
  Helmholtz Association (Germany)
  Deutsche Forschungsgemeinschaft (Germany)
  CNRS (France)
  National Research Foundation (South Africa)
  Tata Institute of Fundamental Research (India)
  Swiss National Science Foundation (SNSF)
  Institute for Cosmic Ray Research (ICRR), Japan

- Member: American Physical Society, American Astronomical Society

Professional Service (since 2000)

National Strategic/Roadmap Committees:

2012-16 Committee on Astronomy and Astrophysics (CAA), Board on Physics and Astronomy, National Research Council, Washington D.C., USA.

2011 Committee to Assess the Deep Underground Science and Engineering Laboratory (DUSEL), National Research Council, Washington DC.

2010-12 Scientific Advisory Committee (SAC), *AStroParticle ERAnet (ASPERA), The Roadmap for Astroparticle Physics in Europe*, Hamburg, Germany.

2009-10 Panel on Particle Astrophysics and Gravitation (PAG), *New Worlds, New Horizons in Astronomy and Astrophysics,* Astro2010: The Decadal Survey in Astronomy and Astrophysics, National Research Council, Washington D.C., USA.

2009 Particle Astrophysics Scientific Assessment Group (PASAG), Sub-Panel of the High Energy Physics Advisory Panel (HEPAP), Washington D.C., USA.

2005 NASA Universe Exploration Strategic Roadmap Committee (SRC-8), NASA, Washington D.C.

2004 Chair, *Science Assessment Group for Experiments in Non-Accelerator Physics (SAGENAP)*, Sub-Panel of the High Energy Physics Advisory Panel (HEPAP), Washington D.C, USA.

2003 Reviewer, *Connecting Quarks with the Cosmos, Eleven Science Questions for the New Century*, Committee on the Physics of the Universe, National Research Council, Washington D.C, USA.

2003-07 Astronomy and Astrophysics Advisory Committee (AAAC), NSF, NASA, and DOE, Washington D.C, USA.

2003 High Energy Physics Facilities Committee, Sub-Panel of the High Energy Physics Advisory Panel (HEPAP), Washington D.C., USA.

2002-04 High Energy Physics Advisory Panel (HEPAP), DOE and NSF, Washington D.C., USA.

2002 Neutrino Facilities Assessment Committee (NFAC), *Neutrinos and Beyond*, National Research Council, Washington D.C., USA.

2001 Long Range Planning for High Energy Physics, Sub-Panel of the High Energy Physics Advisory Panel (HEPAP), DOE and NSF, Washington D.C., USA

2000-02 Scientific Assessment Group for Experiments in Non-Accelerator Physics (SAGENAP), DOE and NSF, Washington D.C., USA.

2000 Panel on High Energy Astrophysics from Space (HEAS), *Astronomy and Astrophysics in the New Millennium,* Decadal Survey in Astronomy and Astrophysics, National Research Council, Washington D.C., USA.

2000 Panel on Particle, Nuclear, and Gravitational Wave Astrophysics (PNGWA), *Astronomy and Astrophysics in the New Millennium,* Decadal Survey in Astronomy and Astrophysics, National Research Council, Washington D.C., USA.

Laboratory/Institute/Project Committees:

2024 - IceCube Scientific Advisory Committee, Madison WI, USA.

2024 - External Review Committee, Institute for Space-Earth Environmental (ISEE) Research, Nagoya University, Nagoya, Japan.

2019 External Review Committee, Institute for Cosmic Ray Research (ICRR), University of Tokyo, Kashiwa, Japan.

2012-17 Physics Research Committee (PRC), Deutsches Elektronen-Synchrotron (DESY) Hamburg, Germany.

2011 Review Committee, *Helmholtz Alliance for Astroparticle Physics – HAP*, Helmholtz Association, May 2011, Karlsruhe, Germany.

2011 Committee of Visitors (COV), NSF Astronomy (AST) Division, Washington DC.

2009 Five-Year Program Review, *Program Astroparticle Physics, Research Field Structure of Matter,* Helmholtz Association, Karlsruhe, Germany.

2008 Selection Committee, *GLAST Fellowship (Cycle 1) Program*, NASA, Washington D.C.

2005-08 Conseil Scientifigue, Laboratoire Leprince Ringuet, Ecole Polytechnique, Palaiseau, France.

2005 Nominating Committee, Division of Astrophysics (DAS) of the American Physical Society (APS), Washington DC.

2003-04 Director's Review, Physics Division, Lawrence Berkeley National Laboratory (LBNL), Berkeley CA, USA.

2003-07 Gamma Ray Large Area Space Telescope (GLAST) User's Committee, NASA, Washington D.C, USA.

2003-07 Experimental Program Advisory Committee (EPAC), Stanford Linear Accelerator Center (SLAC), Stanford CA, USA.

2002-04 Universities Research Association (URA) Visiting Committee, Fermi National Accelerator Laboratory (FNAL), Batavia IL. USA,

2000 Committee of Visitors (COV), NSF Physics (PHY) Division, Washington D.C., USA.

2000 Portfolio Allocation Review (PAR), NSF Astronomy (AST) Division, Washington D.C., USA.

Conference Organization:

2024 Scientific Organizing Committee, *The 2nd LHAASO Symposium*, March 2025, Hong Kong, China.

2023 Scientific Organizing Committee, *The 1st LHAASO Symposium*, May 2023, Tianfu Cosmic Ray Research Center, Chengdu, China.

2019 Organizer, *Antideuteron 2019*, March 2019, Los Angeles CA, USA.

2019 International Advisory Committee, *International School on Astroparticle Physics (ISAPP) 2019, at the Pierre Auger Observatory*, March 2019, Malargue, Argentina.

2016 International Organizing Committee, *Science with the New Generation of High Energy Gamma-ray Experiments (SciNeGHE)*, October 2016, Pisa, Italy.

2016 Scientific Organizing Committee, *Cherenkov Telescope Array: the Ground-based Eyes to Observe the Gamma-ray Universe*, COSPAR Event E1.20, August 2016, Istanbul, Turkey.

2016 International Advisory Committee, *Cosmic Ray International Seminar (CRIS 2016), New eyes on the Universe*, July 2016, Ischia, Italy.

2014 Organizer, *Antideuteron 2014: 1st Cosmic Ray Antideuteron Workshop*, June 2014, Los Angeles CA, USA.

2013 Session Organizer, *High Energy Cosmic Rays and their Propagation*, TeV Particle Astrophysics (TeVPA 2013), August 2013, Irvine CA, USA.

2012 Scientific Organizing Committee, *Second Cherenkov Telescope Array LINK Meeting*, November 2012, Buenos Aires, Argentina.

2012 Scientific Organizing Committee, *Gamma 2012, 5th Heidelberg International Symposium on High-Energy Gamma-ray Astronomy*, July 2012, Heidelberg, Germany.

2012 International Advisory Committee, *9th Workshop on Science with the New Generation of High Energy Gamma-ray Experiments (SciNeGHE 2012),* June 2012, Lecce, Italy.

2006 International Organizing Committee, *VI Rencontres du Vietnam: Particle Astrophysics*, Hanoi, Vietnam, August 2006.

2005 Organizing Committee, *Towards a Future Ground Based Gamma Ray Observatory*, October 2005, Malibu CA, USA.

2005 International Advisory Committee, *Towards a Network of Atmospheric Cherenkov Detectors VII*, April 2004, Palaiseau, France.

2004 Organizing Committee, *2004 Meeting of the Division of Particles and Fields (DPF) of the American Physical Society (APS)*, August 2004, Riverside CA, USA.

2003 Session Organizer, *April Meeting of the American Physical Society (APS), Joint DAP/DPF Session*, April 2003, Philadelphia PA, USA.

2002 Scientific Advisory Committee, *International Symposium: The Universe Viewed in Gamma Rays*, September 2002, Kashiwa, Japan.

2002 Program Committee, *SPIE International Symposium on Astronomical Telescopes and Instrumentation*, August 2002, Waikoloa HI, USA.

2001 Organizing Committee, *Snowmass 2001, The Future of Particle Physics*, July 2001, Snowmass CO, USA.

2000-02 High Energy Neutrino Astrophysics Panel (HENAP), Particle and Nuclear Astrophysics and Gravitation Interaction Committee (PANAGIC).

Postdoctoral Research Associates:

(Most recent position given in parentheses)

2023-	Yu (Carl) Chen, UCLA
2018-21	Sean Quinn (Software Engineer, Meta Corp)
2015-19	Ralph Bird (Staff Machine Learning Engineer, PagerDuty)
2012-15	Taylor Aune (Data Scientist, Climate Corporation)
2009-12	Pratik Majumdar (Associate Professor, SAHA Institute of Nuclear Physics)
2009-15	Isaac Mognet, (Research Scientist, Penn State University)
2005-10	Amanda Weinstein (Associate Professor, Iowa State University)
2002-06	Jeffrey Zweerink, (Associate Project Scientist, UCLA)
2000-02	Jim Hinton (Director, Max-Planck Institute fur Kernphysik, Heidelberg)
1997-99	Zoa Conner (Instructor, College of Southern Maryland)
1995-98	Mark Chantell (Teaching Staff, University of Chicago)
1994-97	Lucy Fortson (Professor, University of Minnesota)
1992-97	Brian Fick (Professor, Michigan Technical University)
1992-06	Kevin Green (Physics Instructor, University of Connecticut-Stamford).
1991-03	Corbin Covault (Professor, Case Western Reserve University)

Graduate Students (Ph.D. supervisor):

(Most recent position given in parentheses)

Padrick Beggs	Ph.D. Student, UCLA Physics
Wenmeng (Nancy) Ning	Ph.D. Student, UCLA Astronomy
Sydney Feldman	Ph.D. Student, UCLA Physics
James Ryan	Ph.D. Astronomy 2022 “Dark Matter Searches With Gamma Rays from the Galactic Center Halo and Cosmic-Ray Antimatter,” (Postdoc, SLAC National Laboratory)
Matt Buchovecky	Ph.D. Physics UCLA 2019 "Very High-Energy Gamma-Ray Emission from the Galactic Center with VERITAS" (Machine Learning Engineer, ZipRecruiter)
Alexis Popkow	Ph.D. Physics UCLA 2016 “Very High-Energy Astrophysical Processes in the Cygnus Region of the Milky Way” (Senior Systems Engineer, Echodyne)
Ken Chow	Ph.D. Physics UCLA 2010 “A Deep Survey of the Galactic Plane at Very High Energies,” (private industry).

Ozlem Celik-Tinmaz	Ph.D. Physics UCLA 2008 "Observations of the Crab Nebula and Pulsar with VERITAS," (Analytics Principal Director, Accenture)
Alex Jarvis	Ph.D. Physics UCLA 2008 "Observations of Gamma-Ray Bursts by STACEE," (Lead Data Analyst, Glu Mobile)
Jennifer Carson	Ph.D. Astronomy, UCLA, 2005 "STACEE Observations of Markarian 421 above 100 GeV and a New Method for High-Energy Spectral Analysis." (Professor of Physics, Santa Monica College)
Scott Oser	Ph.D. Physics, Univ. of Chicago, 1999 "High Energy Gamma-Ray Observations of the Crab Nebula and Pulsar with the Solar Tower Atmospheric Cherenkov Effect Experiment." (Professor of Physics, University of British Columbia)
Joseph Fowler	Ph.D. Physics, Univ. of Chicago, 1998 "Composition and Spectrum of Cosmic Rays at the Knee Measured by the CASA-BLANCA Experiment." (Senior ARRA Fellow, NIST, University of Colorado)

Undergraduate Students (research supervisor):

(Most recent position given in parentheses)

Gregory Baldwin	UCLA undergraduate
Katherine Callahan	UCLA, B.S. Physics 2025 (Graduate Student, UCI)
Ryan Morokutti	UCLA, B.S. Physics 2025 (Graduate Student, UCB)
Anna Kinderman	UCLA, B.S. Physics 2024 (Graduate Student, UCSC)
John Dickson	UCLA, B.S. Physics 2023 (Graduate Student, University of Texas)
Alina Kochocki	UCLA, B.S. Physics 2021 (Graduate Student, Michigan State University)
Takeru Hayashi	UCLA, B.S. Astrophysics 2018 (Research & Development Engineer II, UCLA)
Richie Nagi	UCLA, B.S. Physics 2015 (Software Developer, Lawrence Livermore National Laboratory)

Shuoguang Liu	UCLA CSST summer program 2014 (Graduate student, University of Chicago)
William Johnson	UCLA, B.S. Physics 2013 (Science teacher, Futures Academy)
Sabrina Hong	UCLA, B.S. Astrophysics 2013 (Senior Quantum Hardware Engineer, Google)
Brandon Maupin	UCLA, B.S. Physics 2013 (Technology & Engineering Education, Council Rock School District)
Erika Zetterlund	UCLA REU summer program 2012) (PhD 2018 from University of Colorado)
Jacob Schwartz	UCLA, B.S. Physics 2012 (Staff Research Physicist, Princeton Plasma Physics Laboratory)
Eylene Pirez	UCLA, B.S. Physics 2011 (Head of Digital Media and Research, Geodesic Pictures LLC)
Laura Marchand	UCLA, B.S. Physics 2010 (Principal, ME Engineers)
Nickolas McColl	UCLA, B.S. Physics 2009 (Software Engineer, Google)
Daniel Margala	UCLA, B.S. Physics 2009 (Research Software Engineer, National Energy Research Scientific Computing Center)
Jennifer Sierchio	UCLA REU summer program 2008 (Technical Group Lead, BAE Systems Fast Labs)
Jennifer Helsby	UCLA REU summer program 2007 (Principal Research Engineer, Freedom of the Press Foundation)
Cyrus Rustomji	UCLA, B.S. Physics 2007 (Chief Executive Officer, South 8 Technologies)
William Gignac	Internship at UCLA, 2006 (Postdoctoral Fellow, Georgia Institute of Technology)
Jeff Dunworth	UCLA, B.S. Physics 2005 (Postdoctoral Assistant Professor, University of Michigan)
Kathryn Grimm	UCLA, B.S. Physics 2004 (Assistant Professor, Cal State University East Bay)
Jason Minamora	UCLA, B.S. Physics 2003 (no known recent position)

Susan Channels	UCLA, B.S. Physics 2002 (no known recent position)
Nicolas Rassat	Visiting graduate student from France 2002 (no known recent position)
Thomas Fishman	University of Chicago, B.A. Physics 2002 (Platform Strategist, Global Creative Strategy)
Eugene Chae	University of Chicago, B.A. Physics 2002 (Principal Data Scientist, Kognitiv Corporation)
Daniel Schuette	University of Chicago, B.A. Physics 2000 UCLA research assistant 2001 (Technical staff, MIT Lincoln Laboratories)
Thomas Brennan	University of Chicago, B.A. Physics 1999 (Assistant Professor, Ferris State University)
Antonino Miceli	University of Chicago, B.A. Physics 1998 (Group Leader, Argonne National Laboratory)
Matthew Pritchard	University of Chicago, B.A. Physics 1997 (Professor, Cornell University)
Hugh Kim	University of Chicago, B.A. Physics 1996 (Principal/Owner, Greyson Capital Management)
Zandra Kelley	University of Chicago, B.A. Physics 1995 (M.D. Family Medicine, Lawrence General Hospital)
Peter Rauske	University of Chicago, B.A. Physics 1994 (Research Analyst, TradeLink)
Sunil Golwala	University of Chicago, B.A. Physics 1993 (Professor, California Institute of Technology)
Peter Burke	University of Chicago, B.A. Physics 1992 (Professor, University of California, Irvine)

External Reviewer for Ph.D. or Habilitation Theses

Joaquim Palacio	Philosophiae Doctor (Ph.D.) 2018 *Indirect Dark Matter Searches on the Triangulum-II Dwarf Spheroidal Galaxy and the Perseus Galaxy Cluster with the MAGIC Telescopes* Institut de Fisica d'Altes Energies (IFAE) and Universitat Autonoma de Barcelona (UAB), Barcelona, Spain President of Examining Committee

Riccardo Munini	Tesi Dottorato (Ph.D.), 2016 *Solar Modulation of Cosmic Ray Electrons and Positrons Measured by the PAMELA Experiment during the 23rd Solar Minimum* Facolta di Scienze Matematiche, Fisiche e Naturali University of Trieste, Trieste, Italy
Pierre Brun	Habilitation a Diriger les Recherches (H.D.R.), 2014 *The High-Energy Universe as a Laboratory for Particle Physics* Universite Paris VII, Paris, France
Berrie Giebels	Habilitation a Diriger les Recherches (H.D.R), 2011 *A Contribution to Gamma-ray Astronomy of GeV-TeV Active Galaxies with Fermi and H.E.S.S.* Universite Paris Sud 11, Orsay, France
Mathieu de Naurois	These de Doctorat (Ph.D.), 2000 *L'Experience Celeste: Ouverture d'une Nouvelle Fenetre d'Observation entre 20 GeV et 300 GeV* Universite Paris VI, Paris, France
Berrie Giebels	These de Doctorat (Ph.D.), 1998 *Contribution a la Reconversion d'une Centrale Solaire en un Vaste Detecteur pour l'Astronomie Gamma* Universite de Bordeaux 1, Bordeaux, France

Rene A. Ong

Refereed Publications:

296. "Galactic transient sources with the Cherenkov Telescope Array Observatory," K. Abe *et al*., MNRAS **540**, 205 (2025).

295. "Multiwavelength Observation of a Candidate Pulsar Halo LHAASO J0621+3755 and the First X-ray Detection of PSR J0622+3749," C. B. Adams *et al*., Astrophys. J. **985**, 90 (2025).

294. "Constraints on the X-ray and Very-high-energy Gamma-ray Flux from Supernova Remnant W44," A. Archer *et al*., Astrophys. J. **983**, 73 (2025).

293. "VERITAS and Multiwavelength Observations of the Blazar B3 2247+381 in Response to an IceCube Neutrino Alert," A. Acharyya *et al,* Astrophys. J. **982**, 80 (2025).

292. "An In-depth Study of Gamma Rays from the Starburst Galaxy M82 with VERITAS," A. Acharyya *et al.*, Astrophys. J. **981**, 189 (2025).

291. "Broadband multi-wavelength properties of M87 during the 2018 EHT campaign including a very high energy flaring episode," J.C. Algaba *et al*., Astron. and Astrophys. **692**, 140 (2024).

290. "Prospects for a survey of the Galactic plane with the Cherenkov Telescope Array," S. Abe *et al*., JCAP **10**, 081 (2024).

289. "Prospects for γ-ray observations of the Perseus galaxy cluster with the Cherenkov Telescope Array," K. Abe *et. al*., JCAP **10**, 004 (2024).

288. "Multiwavelength Investigation of γ-ray Source MGRO J1908+06 Emission using Fermi-LAT, VERITAS and HAWC," A. Acharyya *et al.*, Astrophys. J. **974**, 61 (2024).

287. "A Multiwavelength Study to Decipher the 2017 Flare of the Blazar OJ 297," A. Acharyya *et al*., Astrophys. J. **973**, 134 (2024).

286. "Indirect search for dark matter with a combined analysis of dwarf spheroidal galaxies from VERITAS," A. Acharyya *et al*., Phys. Rev. **D110**, 063034 (2024).

285. "Dark matter line searches with the Cherenkov Telescope Array," S. Abe *et al*., JCAP **07**, 047 (2024).

284. "An Angular Diameter Measurement of β UMa via Stellar Intensity Interferometry with the VERITAS Observatory," A. Acharyya *et al.,* Astrophys. J. **966**, 28 (2024).

283. "A Multiwavelength Investigation of PSR J2229+6114 and its Pulsar Wind Nebula in the Radio, X-ray, and Gamma-ray Bands," I. Pope *et al.*, Astrophys. J. **960**, 75 (2024).

282. " Multiwavelength Observations of the Blazar PKS 0735+178 in Spatial and Temporal Coincidence with an Astrophysical Neutrino Candidate IceCube-211208A," A. Acharyya *et al*., Astrophys. J. **954**, 70 (2023).

281. “A VERITAS/Breakthrough Listen Search for Optical Technosignatures,” A. Acharyya *et al*., Astronomical J. **166**, 84 (2023).

280. “Sensitivity of the Cherenkov Telescope Array to TeV photon emission from the Large Magellanic Cloud,” A. Acharyya *et al*., MNRAS **523**, 5353 (2023).

279. “Sensitivity of the Cherenkov Telescope Array to spectral signatures of hadronic PeVatrons with application to Galactic supernova remnants,” F. Acero *et al*., Astroparticle Phys. **150**, 102850 (2023).

278. “VERITAS Discovery of Very High Energy Gamma-Ray Emission from S3 1227+25 and Multiwavelength Observations,” A. Acharyya *et al*., Astrophys. J. **950**, 152 (2023).

277. Search for Ultraheavy Dark Matter from Observations of Dwarf Spheroidal Galaxies with VERITAS, “A. Acharyya *et al*., Astrophys. J. **945**, 101 (2023).

276. “VERITAS and Fermi-LAT Constraints on the Gamma-Ray Emission from Superluminous Supernovae SN2015bn and SN2017egm,” A. Acharyya *et al*., Astrophys. J. **945**, 30 (2023).

275. “Sensitivity of the GAPS experiment to low-energy cosmic-ray antiprotons,” F. Rogers *et al*., Astroparticle Phys. **145**, 102791 (2023).

274. “VTSCat: The VERITAS Catalog of Gamma-Ray Observations,” A. Acharyya *et al*, Research Notes of the AAS **7**, 6 (2023).

273. “Gamma-ray observations of MAXI J1820+070 during the 2018 outburst,” H. Abe *et al*., MNRAS **517**, 4736 (2022).

272. “Multiwavelength Observations of the Blazar VER J0521+211 during an Elevated TeV Gamma-Ray State,” C.B. Adams *et al*., Astrophys. J. **932**, 129 (2022).

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Invited Talks:

130. "The Search for Primary Antimatter with GAPS," Lecture, University of Trieste, Trieste, Italy, May 18, 2024.

129. "The Cherenkov Telescope Array Observatory, Science and Status," Colloquium, Gran Sasso Science Institute (GSSI), L'Aquila, Italy, May 8, 2024.

128. "The Search for Primary Antimatter with GAPS," Seminar, Inst. of Physics of the Czech Academy of Sciences (FZU), Prague, Czechia, May 3, 2024.

127. "The Cherenkov Telescope Array Observatory: Science and Status," Colloquium, Inst. of Physics of the Czech Academy of Sciences (FZU), Prague, Czechia, May 2, 2024.

126. "The Cherenkov Telescope Array: Science and Status", Colloquium, Paul Scherrer Institut (PSI), Villigen, Switzerland, December 16, 2021.

125. "Exploring the VHE Universe with the Cherenkov Telescope Array," Seminar, University of Chile, Santiago, Chile, December 10, 2019.

124. "An Introduction to CTA: Science, Technique & Implementation," Seminar, ESO - Paranal Observatory, Paranal, Chile, December 5, 2019.

123. "Introduction to Key Science Projects and Particle Acceleration in CTA," Plenary Talk, The 1st CTA Science Symposium, Bologna, Italy, May 5-9, 2019.

122. "Cherenkov Telescope Array: Science Goals and Current Status," Plenary Talk, RICAP 2018, 7th Roma Int. Conf. on AstroParticle Physics, Roma Tre University, Rome, Italy, September 7, 2018; published in EPJ Web of Conferences **209** (2019).

121. "Cherenkov Telescope Array: Scientific Perspective and Current Status," Seminar, INAF-OAR, Monte Porzio Catone, Italy, September 4, 2018.

120. "Cherenkov Telescope Array: Overview and Galactic Science," Invited Talk, 42nd COSPAR Scientific Assembly, Session E1.5: Origin of Cosmic Rays, Pasadena CA, July 17, 2012.

119. "VHE Astrophysics with the Cherenkov Telescope Array," Astrophysics Seminar, Center for Astrophysics and Space Science (CASS), University of California, San Diego, La Jolla CA, May 2, 2018.

118. "Very High-Energy Astrophysics and the Cherenkov Telescope Array," Colloquium, School of Earth and Space Exploration (SESE), Arizona State University, Tempe AZ, September 6, 2017.

117. "The Cherenkov Telescope Array," Invited Talk, VERITAS Ten Year Celebration, Whipple Observatory, Amado AZ, June 29, 2017.

116. “The Future of Very High-Energy Astrophysics,” Seminar, University of Kyoto, Kyoto, Japan, October 4, 2016.

115. “The Future of Very High-Energy Astrophysics,” Seminar, Institute for Cosmic Ray Research (ICRR), University of Tokyo, Kashiwa, Japan, September 28, 2016.

114. “The Future of Very High-Energy Astrophysics,” Colloquium, Institute of Space and Astronautical Science (ISAS), Sagamihara, Japan, September 21, 2016.

113. "The Future of Very High-Energy Astrophysics, ISEE CICR Colloquium, University of Nagoya, Nagoya, Japan, September 15, 2016.

112. "Very High Energy Astrophysics and the Cherenkov Telescope Array," Colloquium, University of British Columbia, Vancouver BC, Canada, December 3, 2015.

111. "Very High Energy Astrophysics and the Cherenkov Telescope Array," Colloquium, University of Victoria, Victoria BC, Canada, December 2, 2015.

110. "The CTA Key Science Projects," Seminar, INAF-Brera, Milano, Italy, July 2, 2015.

109. "The CTA Dark Matter Program," Seminar, INAF-Brera, Milano, Italy, June 30, 2015.

108. "The Cherenkov Telescope Array for VHE Astrophysics," Seminar, INAF-Merate, Merate, Italy, June 22, 2015.

107. "The Cherenkov Telescope Array for VHE Astrophysics," Seminar, INFN-Padova, Padova, Italy, June 12, 2015.

106. "The Chrenkov Telescope Array for VHE Astrophysics," Seminar, INFN-Bari, Bari, Italy, May 27, 2015.

105. “The Cherenkov Telescope Array for VHE Astrophysics”, Invited Talk, Inauguration of the HAWC Gamma-ray Observatory, Puebla, Mexico, March 19, 2015.

104. “Astroparticle Physics,” Invited Talk, Nobel Symposium on LHC Results (NS 154), Krusenbergs Herrrgard, Uppsala, Sweden, May 15, 2013.

103. “Very High Energy Astronomy and Prospects for CTA,” Colloquium, Lowell Observatory, Flagstaff AZ, May 2, 2013.

102. “Hunting for the Dark Matter of the Universe,” Colloquium, USC Engineering Honors Colloquium, April 26, 2013.

101. “The High-Energy Universe,” Invited Talk, Scientific Symposium for 50th Anniversary of SLAC, SLAC National Accelerator Laboratory, Stanford CA, August 24, 2012.

100. “Recent Results from VERITAS”, Invited Talk, Victor Hess Centennial Anniversary, 39th COSPAR Scientific Assembly, Mysore, India, July 17, 2012.

99. “The Mysterious Gamma-ray Universe,” Invited Talk, Moreno Valley College, Moreno Valley CA, April 19, 2012.

98. "Viewing the Universe in High-Energy Gamma-rays with VERITAS, Colloquium, IAFE-Universidad de Buenos Aires, Buenos Aires, Argentina, September 20, 2011.

97. "VHE Galactic Source Highlights from VERITAS," Seminar, IRFU-Saclay, Gif sur Yvette, France, July 28, 2011.

96. "GAPS: An Indirect Dark Matter Search using Anti-Deuterons," Invited Talk, Dark Matter Underground and in the Heavens (DMUH 2011), CERN, Geneva, Switzerland, July 26, 2011.

95. "VHE Galactic Source Highlights from VERITAS," Seminar, LPNHE-Jussieu, University of Paris VI, Paris France, June 14, 2011.

94. "Astrophysical Signatures of Particle Dark Matter," Seminar, LLR-Ecole Polytechnique, Palaiseau, France, May 6, 2011.

93. "Particle Astrophysics at the TeV Scale," Colloquium, Department of Physics, Columbia University, New York NY, February 28, 2011.

92. "Astrophysical Signatures of Particle Dark Matter," Seminar, Department of Physics, McGill University, Montreal QC, Canada, October 26 2010.

91. "VERITAS Explores the TeV Gamma-ray Sky," Colloquium, Department of Physics and Astronomy, University of California, Riverside, Riverside CA, April 28, 2010

90. "The VERITAS View of the Very High Energy Universe," Colloquium, Department of Physics, University of Wisconsin, Madison WI, December 4, 2009.

89. "Particle Astrophysics at Very High Energies," Colloquium, School of Physics Georgia Inst. of Technology, Atlanta GA, October 28, 2009.

88. "Viewing the Universe at Very High Energies," Highlight Talk, Southern California American Assoc.of Physics Teachers (SCAAPT), CalState-Channel Islands, Camarillo CA, May 2, 2009.

87. "Viewing the Universe at Very High Energies," Colloquium, Department of Physics, Kansas State University, Manhattan KS, April 28, 2009.

86. "Viewing the Universe at Very High Energies", Colloquium, LNS/Astrophysics, Massachusetts Inst. of Technology, Cambridge MA, March 2, 2009.

85. "Exploring the Gamma-ray Sky", Public Lecture, Santa Monica Amateur Astronomy Club (SMAAC), Santa Monica CA, November 14, 2008.

84. "Particle Astrophysics with VERITAS", Seminar, Kellogg Radiation Laboratory, California Inst. of Technology, Pasadena CA, February 29, 2008.

83. "VHE Particle Astrophysics: Science, Projects, Roadmap, and SLAC," Invited Talk, SLAC User's Organization (SLUO), Stanford Linear Accelerator Center, Menlo Park CA, February 7, 2008.

82. "The Very High Energy Universe", Colloquium, Department of Physics, University of California, San Diego, La Jolla CA, May 24, 2007.

81. "Cosmic Ray Studies to 10^{16} eV," Invited Talk, The Cronin Fest, University of Chicago, Chicago IL, September 8, 2007.

80. "Very High Energy Gamma-Ray Astronomy: Status and Future," Invited Talk, 6th Rencontres du Vietnam: Particle Astrophysics, Hanoi, Vietnam, August 9, 2006.

79. "The Landscape for Particle Astrophysics," Colloquium, Department of Physics, University of California, Riverside, Riverside CA, March 16, 2006.

78. "The Landscape for Particle Astrophysics," Colloquium, Department of Physics, University of Massachusetts, Amherst MA, March 8, 2006.

77. "VHE Astrophysics with VERITAS," Seminar, Department of Physics, University of Toronto, Toronto ON, Canada, March 7, 2006.

76. "Exploring the Extreme Universe," Colloquium, Department of Physics, Whittier College, Whittier CA, December 9, 2005.

75. "Exploring the Extreme Universe," Colloquium, Department of Physics, University of Alberta, Edmonton AB, Canada, December 2, 2005.

74. "Future Landscape for Particle Astrophysics," Seminar, Department of Physics and Astronomy, University of California Los Angeles, Los Angeles CA, October 19, 2005.

73. "Summary: Gamma-Ray Science and Techniques," Rapporteur Talk, 29th Int. Cosmic Ray Conference, Pune, India, August 10, 2005.

72. "Future Facilities in Astroparticle Physics and Cosmology," Plenary Talk, XXII Int. Symposium of Lepton-Photon Interactions at High Energies, Uppsala, Sweden, July 4, 2005.

71. "The Extreme Universe," Colloquium, Department of Physics, Columbia University, New York NY, April 18, 2005.

70. "Very High Energy Astrophysics," Colloquium, Department of Physics, University of California, Davis, Davis CA, April 13, 2005.

69. "The Extreme Universe," Colloquium, Department of Physics, University of Michigan, Ann Arbor MI, March 23, 2005.

68. "Report of the Scientific Assessment Group for Experiments in Non-Accelerator Physics, High Energy Physics Advisory Panel (HEPAP), Washington DC, September 24, 2004.

67. "The Limits of Particle Physics and Astronomy," Colloquium, Department of Physics, Brown University, Providence RI, March 1, 2004.

66. "Observations of Active Galactic Nuclei at Very High Energies," Seminar, Department of Astronomy, University of California San Diego, La Jolla CA, November 4, 2003.

65. "Status of VHE Astronomy," Seminar, Laboratory for High Energy Astrophysics (LHEA), Goddard Space Flight Center, Greenbelt MD, October 24, 2003.

64. "High-Energy Cosmic Rays," Invited Talk Series, XXXI SLAC Summer Institute, Stanford Linear Accelerator Center, Stanford CA, August 1-2, 2003.

63. "The Extreme Universe," Colloquium, Department of Physics, University of California, Irvine, Irvine CA, May 1, 2003.

62. "Exploring the High Energy Universe," Seminar, Department of Statistics, University of California, Los Angeles, Los Angeles CA, March 11, 2003

61. "Cosmic Ray Frontiers," Opening Talk, Cosmic Ray Astrophysics Symposium, 2003 Meeting of the American Association for the Advancement of Science (AAAS), Denver CO, February 16, 2003.

60. "The Status of VHE Astronomy," Conference Summary Talk, Int. Symposium: The Universe Viewed in Gamma Rays, Kashiwa, Japan, September 28, 2002.

59. "The VERITAS Project," Invited Talk, Int. Symposium: The Universe Viewed in Gamma Rays, Kashiwa, Japan, September 27, 2002.

58. "A Twenty Year Roadmap for Particle Physics," Seminar, Department of Physics and Astronomy, University of California, Los Angeles, Los Angeles CA, December 5, 2001.

57. "The Extreme Universe: Probing the Limits of Particle Physics and Astronomy," Colloquium, Department of Physics, University of Alabama, Tuscaloosa AL, November 14, 2001.

56. "The VHE Sky: 2006-2010", Seminar, Meeting of the Gamma Ray Large Area Telescope (GLAST) Collaboration, Stanford University, Stanford CA, August 2, 2001.

55. "The Violent Universe: Extending the Limits of Particle Physics and Astronomy," Colloquium, Department of Physics, Sanford University, Stanford CA, February 27, 2001.

54. "Astronomy of the Very High Energy Universe," Colloquium, Institute for Theoretical Physics (ITP), University of California, Santa Barbara, Santa Barbara CA, January 26, 2000.

53. "VHE Particle Astrophysics," Colloquium, Department of Physics, Southern Methodist University, Dallas TX, February 7, 2000.

52. "Very High-Energy Gamma-Ray Astronomy," Overview Talk, Session of the High Astrophysics Division at 195th Meeting of the American Astronomical Society (AAS), Atlanta GA, January 13, 2000.

51. "Exploring the High Energy Universe," Colloquium, Department of Physics, Iowa State University, Ames IA, December 6, 1999.

50. "Exploring the High Energy Universe," Colloquium, Department of Physics, Boston University, Boston MA, November 15, 1999.

49. "High-Energy Particles from the Universe," Plenary Talk, XIX Int. Symposium of Lepton and Photon Interactions at High Energies, Stanford University, Stanford CA, August 12, 1999.

48. "Detection of 100 GeV Gamma Rays from the Crab Nebula," Seminar, Enrico Fermi Institute, University of Chicago, Chicago IL, May 18, 1999.

47. "Exploring the High Energy Universe," Colloquium, Department of Physics, Ohio State University, Columbus OH, April 13, 1999.

46. "Exploring the High Energy Universe," Colloquium, Department of Physics and Astronomy, University of California Los Angeles, Los Angeles CA, April 8, 1999.

45. "The STACEE Project for High-Energy Gamma-Ray Astrophysics," Seminar, Department of Physics, University of Michigan, Ann Arbor MI, March 15, 1999.

44. "Exploring the High-Energy Universe," Seminar, Department of Physics, University of Wisconsin, Madison WI, March 11, 1999.

43. "Probing the High-Energy Universe," Colloquium, Department of Physics, Case Western Reserve University, Cleveland OH, February 11, 1999.

42. "The STACEE Project," Seminar, Department of Physics, University of New Mexico, Albuquerque NM, October 27, 1998.

41. "Gamma-Ray Astrophysics: Recent Results and Future Prospects," Seminar, LPNHE, Ecole Polytechnique, Palaiseau (Paris), France, June 15, 1998.

40. "The STACEE Project for High Energy Gamma-Ray Astrophysics," Seminar, Department of Physics, Princeton University, Princeton NJ, April 29, 1998.

39. "The STACEE Project for High Energy Gamma-Ray Astrophysics," Seminar, Department of Physics and Astronomy, University of California Los Angeles, Los Angeles CA, March 11, 1998.

38. "The STACEE Project for High Energy Gamma-Ray Astrophysics," Seminar, Department of Physics, Rutgers University, New Brunswick NJ, February 10, 1998.

37. "The Solar Tower Atmospheric Cherenkov Effect Experiment (STACEE)," Seminar, Department of Physics, University of Pennsylvania, Philadelphia PA, February 9, 1998.

36. "Very High Energy Gamma-Ray Astrophysics," Colloquium, Department of Physics, University of Chicago, Chicago IL, October 2, 1997.

35. "UHE Cosmic Rays, Topological Defects, and the Diffuse Gamma-Ray Background," Seminar, Enrico Fermi Institute, University of Chicago, Chicago IL, June 2, 1997.

34. "Astronomy using Solar Heliostat Mirrors," Seminar, USAF Phillips Laboratory, Kirtland AFB, Albuquerque NM, July 2, 1997.

33. "The STACEE Project for Gamma-Ray Astrophysics," Seminar, Center for Particle Astrophysics, University of California, Berkeley, Berkeley CA, May 20, 1997.

32. "TeV and PeV Gamma-Ray Astrophysics," Colloquium, Department of Physics, University of Toronto, Toronto ON, Canada, March 13, 1997.

31. "Development of the Solar Tower Atmospheric Cherenkov Effect Experiment," Invited Talk, 18th Texas Symposium of Relativistic Astrophysics and Cosmology," Chicago IL, December 18, 1996.

30. "Gamma-Ray Astronomy using Large Area Solar Heliostat Fields," Seminar, Physics Division, Los Alamos National Laboratory, Los Alamos NM, June 12, 1996.

29. "The Death of Cygnus X-3," Seminar, Bartol Research Institute, Newark DE, April 11,1996.

28. "The Death of Cygnus X-3," Seminar, Enrico Fermi Institute, University of Chicago, Chicago IL, March 11, 1996.

27. "Large Area Atmospheric Cherenkov Detectors for High Energy Gamma-Ray Astronomy," Plenary Talk, 24th Int. Cosmic Ray Conference, Rome, Italy, August 29, 1995.

26. "High Energy Gamma-Ray Astronomy, 20-200 GeV," Seminar, Department of Physics, Leeds University, Leeds, U.K., June 6, 1995.

25. "Astronomy at the Highest Energies," Colloquium, Department of Physics, University of Oregon, Eugene OR, May 4, 1995.

24. "Astronomy at the Highest Energies," Colloquium, Department of Physics, Pittsburgh University, Pittsburgh PA, February 20, 1995.

23. "Using a Large Solar Array for Gamma-Ray Astronomy," Seminar, Enrico Fermi Institute, University of Chicago, Chicago IL, November 10, 1994.

22. "Art in the Realm of the Sciences: Flight and Gravity," Invited Talk, Art Institute of Chicago, Chicago IL, October 22, 1994.

21. "Gamma Rays: TeV Energies and Beyond," Invited Talk, Towards a Next-Generation High-Energy Gamma-Ray Telescope, Stanford University, Stanford CA, August 23, 1994.

20. "Cosmic Rays Below 10^{16} eV," Plenary Talk, Snowmass Summer Study: Particle and Nuclear Astrophysics and Cosmology in the Next Millennium, Snowmass CO, July 6, 1994.

19. "Exploratory Work on the Concept of a Large Area Atmospheric Cherenkov Detector," Invited Talk, Int. Workshop Towards a Major Atmospheric Cherenkov Detector III, Tokyo, Japan, May 26, 1994.

18. "PeV Gamma-Ray Astronomy," Seminar, Department of Physics, University of Illinois Chicago, Chicago IL, May 2, 1994.

17.. "100 TeV Astronomy with the CASA-MIA Detector," Seminar, Department of Physics, University of Illinois, Urbana IL, May 2, 1994.

16. "High Energy Gamma-Ray Astronomy," Colloquium, Department of Physics, Indiana University, Bloomington IN, December 6, 1993.

15. "Astrophysics at Energies Greater than 100 TeV," Seminar, Department of Physics, University of Michigan, Ann Arbor MI, April 9, 1993.

14. "Particle Astrophysics with Gamma Rays at Energies Greater than 10 TeV," Plenary Talk, IV Rencontres de Blois: Particle Astrophysics, Blois, France, June 17, 1992.

13. "Physics and Astronomy at PeV Energies," Seminar, Research Division, Stanford Linear Accelerator Center, Stanford CA, March 24, 1992.

12. "Physics and Astronomy at Energies of 10^{14} eV," Colloquium, Department of Physics, Rice University, Houston TX, February 19, 1992.

11. "Results from the CASA-MIA Cosmic Ray and Gamma-Ray Astronomy Facility," Invited Talk, Joint International Lepton-Photon Symposium and Europhysics Conference on High Energy Physics, Geneva, Switzerland, July 27, 1991.

10. "The Physics and Astronomy of Gamma Rays at PeV Energies," Colloquium, Department of Physics, University of California, Berkeley, Berkeley CA, April 24, 1991.

9. "Gamma-Ray Physics and Astronomy at PeV Energies," Seminar, Physics Division, Brookhaven National Laboratory, Upton NY, March 28, 1991.

8. "Physics and Astronomy at PeV Energies," Seminar, Department of Physics, Princeton University, Princeton NJ, March 27, 1991.

7. "Gamma-Ray Physics and Astronomy," Colloquium, Department of Physics, University of Colorado, Boulder CO, March 15, 1991.

6. "Physics and Astronomy at PeV Energies," Seminar, Department of Physics, Harvard University, Cambridge MA, February 21, 1991.

5. "PeV Gamma Rays from Astrophysical Point Sources," Seminar, Department of Physics, University of California, Santa Cruz, Santa Cruz CA, February 8, 1991.

4. "Results and Prospects for Ultra High Energy Gamma-Ray Astronomy," Colloquium, Physics Division, Argonne National Laboratory, Argonne IL, March 31, 1989.

3. "Measurement of the B Hadron Lifetime from Mark II at PEP," Invited Talk, Int. Symposium of Production and Decay of Heavy Flavors, Stanford University, Stanford CA, September 3, 1987.

2. "Recent Measurements of the B Hadron Lifetime," Invited Talk, 15th SLAC Summer Institute, Stanford Linear Accelerator Center, Stanford CA, August 18, 1987.

1. "The Mark II Vertex Drift Chamber," Seminar, Physics Division, Japanese National Laboratory for High Energy Research (KEK), Tsukuba, Japan, May 1983.