

# DAVID B. KIEDA

## PERSONAL DATA

Address: University of Utah  
Physics Department  
201 James Fletcher Building  
Salt Lake City, Utah 84112

Phone: (801) 581-3538 (work)  
(801) 359-7447 (home)  
(801) 518-2548 (cell)

Email: dave.kieda@utah.edu

Born: 22 March 1960, Johnson City, New York  
USA

Citizenship: USA

Married: Lisa Goldstein Kieda

## EDUCATION

University of Pennsylvania, Philadelphia (1982-1989)  
Ph.D. in Experimental Astrophysics (February 1989)  
Thesis Title: "Cosmic Ray Composition and Muon Decoherence  
Near the Knee of the All-Particle Spectrum"  
Advisors: Prof. Kenneth Lande  
Prof. Michael Cherry  
Prof. Raymond Davis, Jr.

Massachusetts Institute of Technology (1978-1982)  
S.B.; Physics  
Thesis Title: "Magnetic Field Effects in Superconductors  
and SQUIDS"  
Advisors: Prof. M. L. A. MacVicar  
Prof. J. Bostock

## **APPOINTMENTS**

2021–present	Distinguished Professor Department of Physics and Astronomy University of Utah
2013–present	Dean, The Graduate School University Accreditation Liaison Officer University of Utah
2007–2013	Chair, Department of Physics University of Utah
2002–2021	Professor, Physics Department University of Utah
1996–2002	Associate Professor, Physics Department University of Utah
1990–1996:	Assistant Professor, Physics Department University of Utah
1989–1990:	Research Associate, Physics Department University of Utah
1983–1989:	Research Assistant, Physics Department University of Pennsylvania
1982–83, 1987:	Teaching Assistant, Physics Department University of Pennsylvania
1984:	Instructor, Physics Department South Dakota School of Mines and Technology

## **MEMBERSHIPS AND PROFESSIONAL AFFILIATIONS**

Sigma Xi Scientific Research Honor Society  
Fellow, American Physical Society (Astrophysics, Particles and Fields Divisions)  
American Astronomical Society  
Phi Kappa Phi Honor Society

## **COURSES TAUGHT**

Physics 1980 (Undergraduate Seminar) - Spring 2008-2013  
Physics 1970 (Undergraduate Seminar) - Fall 2007-2012  
Physics 361 (Electronics I for Instrumentation) - Autumn 1997  
Physics 362 (Electronics I for Instrumentation) - Winter 1998  
Physics 363 (Electronics III for Instrumentation) - Spring 1998  
Physics 3610 (Electronics I for Instrumentation) - Autumn 1998-1999  
Physics 3620 (Electronics II for Instrumentation) - Spring 2002-2005, 2010, 2013  
Astronomy 3060/Physics 3060 (Introduction to Stellar  
Astrophysics) - Autumn 2006

Astronomy 4080/Physics 4080 (Introduction to Cosmology) - Autumn 2007,  
 Autumn 2008, Summer 2011  
 Physics 3719 Undergraduate Research Experience- Summer 2006-2009, Fall 2010-2011  
 Physics 3740 (Relativity and Quantum Mechanics) - Fall 2003  
 Physics 3910 (Applied E&M: Physics of Modern Technology) -Autumn 2000  
 Physics 3920 (Applied Quantum Mechanics: Physics of  
 Modern Technology) -Spring 2001  
 Physics 545 (Intermediate Quantum Mechanics) - Autumn 1993  
 Physics 546 (Intermediate Quantum Mechanics II) - Winter 1994  
 Astronomy 5590/Physics 5590 (Introduction to  
 Stellar Astrophysics) - Autumn 2004, 2006, 2008, Spring 2011  
 Astronomy 5580/Physics 5580 (Extragalactic Astronomy and  
 Cosmology) - Autumn 2007  
 Physics 562 (Electronics II for Instrumentation) - Winter 1991-1993,  
 1995-1997  
 Physics 563 (Electronics III Computer Interfacing) - Spring 1991-1997  
 Physics 561 (Electronics I for Instrumentation) - Autumn 1991-1992,  
 1994-1997  
 Physics 5610 (Electronics I for Instrumentation) - Autumn 1998-1999  
 Physics 5620 (Electronics I for Instrumentation) - Spring 1999-2000  
 Physics 6620 (Electronics II for Instrumentation) - Spring 2002-2006, 2010, 2013  
 Physics 6950 (Radiation Processes in Relativistic  
 Astrophysics) - Spring 2003  
 Physics 6950 (Quantum Mechanics and Relativity for  
 Secondary School Teachers)- Spring 2018  
 MBIOL 7570 (Case studies and Research Ethics) - 2013-2019 (guest-lecturer)  
 OSHER 675 (The Way Things Work) - Fall 2009  
 OSHER 163 (Frontiers of Physics and Astronomy) - Spring 2010  
 OSHER 748 (Six Nobel Prizes, Six Utah Stories) - Spring 2015, Spring 2016, Spring 2018  
 CMP 3850 (Dark Sky Studies) - Fall 2019, Fall 2020 (guest-lecturer)  
 Faculty Lecturer, University of Utah Research Education  
 Grant Writing Academy, Deer Valley, Utah  
 2015, 2016, 2017, 2018, 2019, 2020

## **DEPARTMENT COMMITTEES**

Graduate Council Seven Year Review Committee 2021-2022  
Chairman, Department of Physics and Astronomy, 2007-2013  
Postdoctoral Affairs 2016-2017  
    Chairman 2016-2017  
Program Standards and Assessment 2014-2015  
New Building Task Force 2014-2015  
Development Task Force 2013-2017  
Honors/Awards Committee (Faculty/Staff) 2004-2005, 2006-2007, 2013-2020  
    Chairman 2020-2022  
Student Service and Student-Faculty Relationships Committee 2001-2002  
Astronomy Initiative 2005-2007  
Policy Board 1997-1998, 1999-2002, 2003-2004, 2006-2007, 2016-2017  
Medical Physics Committee 1995-1999  
Electronics Facility Committee 2003-2004  
New Building Committee 1996-1997  
Curriculum/TA Evaluation Committee 2003-2005  
RPT Criteria Review 2006-2007  
Honors/Awards Committee (students) 2006-2007  
Computer Facilities/Electronics Shop Committee 1997-1998  
Ad hoc Committee on Research Faculty (1999-2000)  
Ad hoc Committee on Research Faculty Review (2003-2004)  
Shop Facilities Committee 1996-1997  
    Chairman, 1996-1997  
Admissions Committee 1992-1996,1998-2003, 2006-2007  
    Chairman 2000-2003  
Director of Graduate Studies, Physics Department 2006-2007  
Research Council 1990-1994,1998-1999  
    Chairman 1991-1994,1998-1999  
Graduate Student Counseling 1991-1993,1998-2007  
Solid State Faculty Search Committee 1993-1994  
Medical Physics Faculty Search Committee 1997-1999  
Gamma Ray Astrophysics Faculty Search Committee 1999-2000  
    Chairman 1999-2000  
Gamma Ray Astrophysics Faculty Search Committee 2002-2003  
    Chairman 2002-2003

Solid State Physics Faculty Search Committee 2003-2004  
Gamma Ray Astrophysics Faculty Search Committee 2003-2004  
    Chairman 2003-2004  
High Energy Astrophysics Faculty Search Committee 2004-2005  
    Chairman 2004-2005  
High Energy Physics Faculty Search Committee 2000-2001, 2005-2006  
Masters of Instrumentation Restructuring Committee 1995-1996  
Ad hoc Committee on Research Faculty Appointment Policy 2005-2006  
Instrumentation Grad Advisor 1998-2000,2001-2007  
Colloquium Committee 1990–1991  
Space Committee 2000-2004  
    Chairman 2003-2004  
Futures Committee 2002-2003  
    Chairman 2002-2003  
Physics Astronomy Observatory Committee 2000-2001  
Task Force for Applied Physics (Physics of Modern Technology) Program  
    (Undergraduate and Graduate) 1998-2003  
Curriculum/TA Evaluation 2003-2004  
RPT Committees  
    Chairman, Adjunct Faculty 1990-1991  
    Chairman, Research Associates 1991-1992, 1993-1995, 1999-2000  
    Various Faculty members, 1996-2007, 2014-present  
    Chairman, Research Associate Professors 1998-1999

## UNIVERSITY COMMITTEES

Chief Global Officer Search Committee (2020-2021)  
Project Marmalade (COVID-19) Taskforce (2020-present)  
Academic Senate Graduate Assembly Committee (2019-2020)  
Union Scholarship Committee (2021)  
Dean of Flexible Online Learning and  
Continuing Education Search Committee (2019-2020)  
Master of Interdisciplinary Studies Study Group  
Co-Chairman (2019-2021)  
Academic Senate Centers, Institutes and  
Bureaus Policy Committee:CIB2 (2018-2020)  
Campus Budget Advisory Committee (2014-2021)  
Graduate Education Study Group (2016-2017)  
Graduate Student Support Study Group (2015-2016)  
Founder and Co-Chair, Consortium for Dark Sky Studies (2016-present)  
Dean's Search Committee, College of Social Work (2014-2015)  
Dean's Search Committee, College of Science (2013-2014)  
Dean's Search Committee, College of Architecture and Planning (2013-2014)  
Dean's Search Committee, College of Social and Behavioral Science (2013-2014)  
University Accreditation Steering Committee, Co-Chair (2014-2018)  
Crocker Science Center Executive Committee (2013)  
Presidential Taskforce on K-12 Math and Science Preparation (2013-2014)  
Search Committee, Senior VP for Academic Affairs (2012-2013)  
Advisory Board, Middle East Center (2011-2013)  
University Conflict of Interest Committee (2012-2013)  
Co-Chair, Search Committee, Associate VP for Faculty (2010-2011)  
Chairman, Internal Graduate Review,  
Atmospheric Sciences Department (October 2010)  
Director, Utah High Energy Astrophysics Institute (2000-2008)  
University Research Committee 1992-1995  
Chairman 1994-1995  
Chairman, Faculty Fellowship Awards 1993-1994

University Research Instrumentation Committee 1994-1995  
 University RPT Standards Committee 2006-2007  
 Academic Freedom and Tenure Committee 1995-1998, 2005-2007  
     Chairman 1997-1998  
 RPT PPM Revision ad hoc Committee 2002-2005  
 Academic Policy Advisory Committee 1998-2002  
 ad hoc Committee for AFTC/FHC/University  
     Promotion/tenure Review 1998-2002  
 RPT Task Force 1999-2005  
     Chairman 1999-2005  
 Academic Senate 2001-2004, 2006-2009  
 Library Policy Advisory Committee 2003-2006  
     Chairman, 2004-2006  
 Professional Master's of Science and Technology (PMST) Program  
     Executive Director (2013-present)  
     Scientific Instrumentation Track Director 2001-2005, 2006-2007  
     Executive Committee 2002-2005, 2006-2007, 2013-present  
     Curriculum Chairman 2002-2005, 2006-2007  
 Academic Appeals and Misconduct Committee,  
     Ethnic Studies Program 2003-2006  
 Consolidated Hearing Committee 2006-2012  
 University Standards and Appeals Committee 2006-2009  
 University Hearing Committee 2006-2012  
 University Studies Committee 2004-2007

## **REGIONAL and NATIONAL COMMITTEES/PANELS/SERVICE**

National Science Foundation  
     NSF Research Traineeship Review Panel  
     May 2021 Sloan Foundation Innovation Awards  
     Physics and Astronomy Panel  
     November 2020  
 Particle Astrophysics and Gravitational Panel  
 Decadal Survey on Astronomy and Astrophysics (Astro 2020)  
     National Academy of Sciences  
     Washington, DC  
     October 2019-present  
 National Science Foundation  
     MPS-AC Physics Frontiers Center Program Review Committee  
     Sept 2018-July 2019

National Science Foundation  
Accelnet Review Panel  
May 2020

US Department of Energy, LZ Project Independent Review Panel  
January 2019  
August 2020

National Science Foundation, Extremely Large Telescope (ELT ) Review Panel  
December 2019

National Science Foundation, LSST Construction & Operations Review Panel  
December 2018  
April 2020

US Department of Energy, DESI Construction Review Panel  
November 2018

US Department of Energy, DESI CD-04 Review Panel  
Feb 2018

US Department of Energy, DESI CD-03 Review Panel  
May 2016 US Department of Energy, DESI CD-02 Review Panel  
July 2015

National Science Foundation Physics Frontiers Center Panel  
October 2013, October 2016, May 2017

NASA NICER Observatory  
Cycle 3 Review Committee(January 2021)

NASA NuStar Observatory  
Cycle 1 Review Committee(February 2015)  
Cycle 2 Review Committee(February 2016)  
Review panel Chair  
Cycle 4 Review Committee(March 2018)  
Review panel Chair

FERMI User's Group Committee (2015-2020)

NASA APRA/SAT Review Panel  
June 2014, June 2015, May 2016, March 2021

US Department of Energy, Cosmic Frontiers Review Panel  
November 2012  
November 2013

NASA 2014 Senior Review Panel  
April 2014



Chairman/Organizer, AAS Astronomy Chair's Meeting  
November 3, 2012  
Chicago, IL  
NASA PCOS X-Ray Surveyor Study Team (2016-2017)  
NASA FERMI (GLAST) Observatory  
Cycle 14 Review Committee (April 2021)  
Cycle 13 Review Committee (May 2020)  
Review Panel Chair  
Cycle 12 Review Committee (April 2019)  
Cycle 8 Review Committee (April 2015)  
Review Panel Chair  
Cycle 7 Review Committee (April 2014).  
Review Panel Chair  
Cycle 6 Review Committee (March 2013).  
Review Panel Chair  
Cycle 5 Review Committee (April 2012).  
Review Panel Chair  
Cycle 4 Review Committee (April 2011).  
Cycle 1 Review Committee (December 2007)  
NASA SWIFT Observatory  
Cycle 9 Review Committee (December 2012).  
Review Panel Co-Chair  
Cycle 7 Review Committee (December 2010).  
Review Panel Chair  
Cycle 5 Review Committee (January 2009).  
Review Panel Chair  
Cycle 2 Review Committee (September 2005).  
NSF Graduate Research Fellowship Review panel (2014-2021)  
NASA SMEX Program  
Science Review Panel (March 2008).  
NASA MIDEX Program  
Chair, Fundamental Physics Science Panel (April 2011)

RXTE Observatory  
Cycle 14 Review Committee (October 2009).  
Review Panel Chair  
Cycle 11 Review Committee (November 2005).  
Review Panel Chair  
Cycle 10 Review Committee (November 2004).  
Cycle 8 Review Committee (February 2003).

NASA Suzaku Observatory  
Cycle 1 Review Committee (March 2006).

ICECUBE Observatory  
External Review Panel (May 2007)

NASA Compton Gamma Ray Observatory  
Cycle 9 Review Committee (July 1999).  
Cycle 8 Review Committee (July 1998).  
Cycle 7 Review Committee (August 1997).  
Cycle 6 Review Committee (June 1996).  
Cycle 5 Review Committee (May 1995).  
Cycle 4 Review Committee (June 1994).

Workshop on Stellar Intensity Interferometry Astronomy  
Co-Chair, Organizing Committee  
Ohio State University (CCAP)  
Columbus, Ohio  
April 2022

26<sup>th</sup> International Cosmic Ray Conference  
Organizing Committee, Co-Chairman (1993-2000).  
Session Chair  
Salt Lake City, Utah  
August 17-25, 1999

October 2002 Four Corners APS meeting  
Organizing Committee, Chairman (2000-2002).  
Salt Lake City, Utah  
October 4-5, 2002

October 2018 Four Corners APS meeting  
Organizing Committee, Chairman (2016-2018).  
Program Committee  
University of Utah  
Salt Lake City, Utah  
October 12-13, 2018

First International Workshop on Air Fluorescence  
Organizing Committee (2002).  
Salt Lake City, Utah  
October 6-8, 2002

Organizer, Southern Utah Observatory Workshop  
Salt Lake City, Utah  
June 26, 2006

Organizer, Stellar Intensity Interferometry Workshop  
Salt Lake City, Utah  
January 29-30, 2009

First Light Workshop  
Scientific Organizing Committee  
Amado, Arizona  
April 27-28, 2007

Organizer, AGIS Workshop  
Salt Lake City, Utah  
November 13-14, 2009

Co-Organizer, SDSS-III/BOSS Collaboration Meeting  
Salt Lake City, Utah  
March 8-10, 2010

Chairman, Organizing Committee  
Snowbird Particle Astrophysics, Astronomy and Cosmology Workshop 2009  
(SnowPAC2009)  
February 1-7, 2009  
Snowbird, Utah

Chairman, Organizing Committee  
Snowbird Particle Astrophysics, Astronomy and Cosmology Workshop 2010  
(SnowPAC2010)  
March 23-28, 2010  
Snowbird, Utah

Co-Chairman, Local Organizing Committee  
SnowCluster Workshop 2010  
March 29- April 2, 2010  
Snowbird, Utah

Chairman, Organizing Committee  
Snowbird Particle astrophysics, Astronomy and Cosmology Workshop 2011  
(SnowPAC2011)  
January 30-Feb 5, 2011  
Snowbird, Utah

- Co-Chairman, Organizing Committee  
Snowbird Particle Astrophysics, Astronomy and Cosmology Workshop 2012  
(SnowPAC2012)  
March 18-23, 2012  
Snowbird, Utah
- Co-Chairman, Organizing Committee  
Snowbird Workshop on Dark Matter Observations through Gamma Rays 2012  
(SnowDOG2012)  
March 24-26, 2012  
Snowbird, Utah
- Co-Chairman, Organizing Committee  
Black Hole Fingerprints: Dynamics, Disruptions & Demographics 2013  
(SnowPAC2013)  
March 17-23, 2013  
Snowbird, Utah
- Co-Chairman, Organizing Committee  
Physics of Galaxy Clusters 2013  
(SnowCluster2013)  
March 24-29, 2013  
Snowbird, Utah
- Co-Chairman, Organizing Committee  
Signatures of Non-WIMP Dark Matter 2013  
(SnowDark2013)  
March 22-25, 2013  
Snowbird, Utah
- Co-Chairman, Organizing Committee  
The Gamma-Ray Astronomy Retrospective  
(TrevorFest 2013)  
October 26, 2013  
Tucson, AZ
- Co-Chairman, Organizing Committee  
Physics of Galaxy Clusters 2015  
(SnowCluster2015)  
March 15-20, 2015  
Snowbird, Utah
- Co-Chairman, Local Organizing Committee  
The Galaxy-Halo Connection 2016  
(SnowPAC 2016)  
March 13-18, 2016  
Snowbird, Utah

Co-Chairman, Local Organizing Committee  
Snowbird Lyman-Alpha Workshop 2017  
(SnowCLAW2017)  
March 19-24, 2017  
Snowbird, Utah

Co-Chairman, Local Organizing Committee  
Physics of Galaxy Clusters 2018  
(SnowCluster2018)  
March 18-23, 2018  
Snowbird, Utah

Co-Chairman, Local Organizing Committee  
Artificial Light at Night 2018  
(ALAN 2018)  
November 11-14, 2018  
Snowbird, Utah

Chairman, Local Organizing Committee  
Utah VERITAS Meeting  
Salt Lake City, Utah  
June 17-19, 2019

Chairman, Local Organizing Committee  
CTA-US Meeting  
Salt Lake City, Utah  
June 20-22, 2019

Local Organizing Committee  
pSCT Telescope Inauguration  
Tucson, AZ  
Jan 17-18, 2019

Scientific Organizing Committee  
VERITAS Ten Year Celebration  
Tucson, AZ  
Jun 28-29, 2017

Program Committee  
4 Corners APS 2009 Meeting  
Colorado School of Mines  
Golden, CO  
October 23-24, 2009

Local Organizing Committee  
4 Corners APS 2010 Meeting  
Weber State University  
Ogden, UT  
October 14-15, 2010

Program Committee  
   4 Corners APS 2011 Meeting  
   University of Arizona  
   Tucson, AZ  
   October 21-22, 2011

Local Organizing Committee  
   4 Corners APS 2016 Meeting  
   New Mexico State University  
   Las Cruces, NM  
   October 21-22, 2016

Program Committee  
   4 Corners APS 2017 Meeting  
   Colorado State University  
   Fort Collins, CO  
   October 20-21, 2017

Local Organizing Committee  
 Program Committee  
   SACNAS Symposium: Our Disappearing Dark Skies: Lost Dreams  
   and Impacts on Ecology, Environment, and Society  
   SACNAS 2017 Meeting  
   Salt Lake City, UT  
   October 19, 2017

Co-Organizer, Utah HAWC Meeting  
   Salt Lake City, Utah  
   February 9-12, 2015

Co-Organizer, Fermi-VERITAS-HAWC Workshop  
   Salt Lake City, Utah  
   April 20-22, 2016

Program Committee, Utah Air Fluorescence Workshop  
   Salt Lake City, Utah  
   March 4-7, 1996

Chairman, Air Cherenkov Design Group  
   Giant Airshower Detector Design Group  
   Fermilab (Batavia, Il 1995)

Organizer, Utah TeV Gamma Ray Workshop  
   Snowbird, Utah  
   August 14-16, 1999  
 Organizer, Utah Auger Meeting  
   Park City, Utah  
   May 8-13, 1997

Reviewer, Western Governor's University EPIC Standards Panel (2009)  
 Reviewer, National Science Foundation  
 Reviewer, Department of Energy  
 Reviewer, Department of Energy ARRA Program (2009)  
 Reviewer, Europhysics Letters  
 Reviewer, Astroparticle Physics  
 Reviewer, J. Phys. G., Rev. Mod. Phys.  
 Reviewer, Nature  
 Reviewer, Classical and Quantum Gravity  
 Reviewer, Monthly Notes of the Royal Astronomical Society  
 Reviewer, Annals of the New York Academy of Science  
 Reviewer, Symmetry  
 Reviewer, Universe  
 Reviewer, NASA Postdoctoral Fellowship Program (2013-present)  
 Reviewer, NASA EPSCOR Program  
 Reviewer, Foundation for Polish Science  
 Reviewer, Czech Science Foundation  
 Reviewer, Japan Science Foundation  
 Reviewer, Civilian Research Development Foundation (CRDF)  
 Executive Committee, VERITAS Gamma Ray Observatory 1997-2020  
     Chair, VERITAS Executive Committee (2012-2014, 2020-2022)  
 Camera Group Leader, VERITAS project (2005-2008)  
 Project Engineer, SCT Telescope Project (2012-2020)  
 VERITAS Upgrade Leader, VERITAS Observatory (2009-2020)  
 Executive Committee, CTA-US Collaboration (2016-present)  
 Intensity Interferometry Science Working Group, CTA Observatory  
     Working Group Leader (2019-2020)  
     Deputy Working Group Leader (2018).  
 Editorial Board, ISRN Astronomy and Astrophysics (2011-2013)  
 Session Chair at many conferences  
 American Physical Society, Four Corners Section  
     Past-Chairman (2010-2011)  
     Chairman (2009-2010)  
     Vice Chair (2008-2009)  
     Chair Elect (2007-2008)  
     Executive Committee (2002-2005)  
 Project ASTRO (Astronomer-teacher partnership for hands-on  
     6th grade science education) 1997-2000  
 ASPIRE Science in Service (WWW-based educational lessons for  
     6th-12th grade students) 1997-2000  
 Judge, Conrad Foundation *Spirit of Innovation Challenge* (2013)  
 MIT Education Council 1995-2022

Kol Ami School Board 2003-2008

Team Mentor, FIRST Robotics Team 3006 (West High School) 2008-2017

External Advisory Committee, Utah First Robotics

September 2019-present

Associate Team Mentor, FIRST Robotics Team (East High School) 2011-2012

College Board Review Panel, AP Physics 1/Physics 2 Standards (2011)

Steering Committee, Canyons School District, National Center for  
Earth and Space Science Education (NCSSE) November 2010



## **Short Term Visits to Other Institutions**

F. L. Whipple Observatory, Amado, AZ June 2004-August 2004  
F. L. Whipple Observatory, Amado, AZ May 2005-August 2006  
F. L. Whipple Observatory, Amado, AZ July 2008-August 2008  
F. L. Whipple Observatory, Amado, AZ June 2009-August 2009  
F. L. Whipple Observatory, Amado, AZ July 2010-August 2010  
F. L. Whipple Observatory, Amado, AZ July 2011-August 2011  
F. L. Whipple Observatory, Amado, AZ June 2012-August 2012  
Alexandria University, Alexandria, Egypt November 2015  
University of Arizona, Department of Astronomy  
Visiting Scholar (August 2005-August 2006).

## **Citations and hIndex (August 2021)**

26203 citations (total)  
11792 citations (since 2016)  
h-index 79  
i-index 238

## **Honors and Recognition**

Dark Sky Defender Award, International Dark Sky Association (2017)  
University of Utah Distinguished Scholarly and Creative Research Award (2013)  
Utah Governor's Medal for Science and Technology (2013)  
Fellow, American Physical Society (2011)  
ASUU Student Choice Teaching Award (2007)

## **GRANTS AND AWARDS:**

### **Funding Summary**

\$31.0M in external funding  
\$2.2M internal funding  
\$17.2M as PI  
\$15.5M as Co-PI  
\$33.2M in total funding

### **Specific External Funding Awards**

- ”MRI Consortium: Development of Upgraded Stellar Intensity Interferometry Instrumentation for the VERITAS Observatory”  
NSF Grant #PHY 2117641  
Sept .1, 2021-Aug. 31, 2024 (\$399,774 NSF, \$171,332 UU Matching )
- ”University of Utah Particle Astrophysics Research Group Grant (VERITAS, HAWC, CTA)”  
NSF Grant #PHY 2111531  
Aug 11, 2021-Aug 10, 2024 (\$1,200.423)
- ”Illuminating Dark Skies Studies: A Transdisciplinary Focus on the Disappearing Dark”  
W. M. Keck Foundation  
January 2019-January 2020 (\$250,000)  
Co-PI
- ”MRI Consortium: Development of a Wide Field-of-View Camera for the Schwartzchild-Couder Gamma-Ray Telescope,”  
Utah Subcontract (Barnard College)  
NSF Grant #PHY 1821868  
Sep 1, 2018-Aug 31, 2021 (\$129,875)
- ”Particle and Gamma-Ray Astrophysics with HAWC/VERITAS (Utah Group Grant)”  
NSF Grant #PHY 1807029  
Aug 1, 2018-July 31, 2021 (\$745,000)
- ”RAPID Opportunity for U/V band stellar imaging using Intensity Interferometry with the VERITAS Observatory)”  
NSF Grant #AST 1806262  
Feb 1, 2018-Jan 31, 2019 (\$133,591)
- ”Gamma-Ray Astronomy and Cosmic-ray Astrophysics with the VERITAS and HAWC Observatories (University of Utah Group)”  
NSF Grant #PHY 1510504  
July 15, 2015-July 15, 2018 (\$965,205)
- ”Support for the 2015 SnowCluster Workshop  
NSF Grant #AST 1463660
- ”Support for the 2018 SnowCluster Workshop  
NSF Grant #AST 1806136  
March 1, 2018-Feb 28, 2019 (\$20,500)
- ”University of Utah Institutional Membership Sloan Digital Sky Survey IV”  
Willard L. Eccles Foundation  
June 2013-June 2018 (\$350,000)
- ”Support for the 2013 SnowPAC Workshop  
NSF Grant #AST 1304046  
Jan 1, 2013-Jan 1, 2014 (\$8200)

- “REU Physics and Astronomy at University of Utah”  
 NSF Grant #PHY 1263394  
 May 1, 2013-May 1, 2015 (\$233,433)
- “Collaborative research: MRI Consortium: Development of a Novel Telescope  
 for Very High Energy Gamma-Ray Astrophysics”  
 UCLA Subcontract of NSF Award  
 October 1, 2012-October 1, 2015 (\$42,000 NSF, \$18,000 UU Matching)
- “Summer REU Exchange Program  
 Jazan University, Saudi Arabia  
 Jun 1, 2012-Aug 1, 2012 (\$19905)
- “Public Education and Outreach in Astronomy”  
 Willard L. Eccles Foundation  
 July 2012-July 2013 (\$100,000)
- “Gamma Ray Astronomy and Particle Astrophysics (Univ. of Utah Group)”  
 NSF Grant #PHY 1207595  
 June 15, 2012-June 15, 2015 (\$1,188,000)
- “Support for the 2012 SnowPAC Workshop  
 NSF Grant #AST 1221024  
 March 1, 2012-March 1, 2013 (\$8200)
- “Participant Support for 2011 Snowbird Workshop on  
 Particle Astrophysics, Astronomy, and Cosmology”  
 NSF Grant #PHY 1108877  
 February 28, 2011-February 28, 2012 (\$8000)
- “MRI-R2 Consortium: Development of Improved Instrumentation for the  
 VERITAS Gamma-Ray Observatory”  
 NSF Grant #PHY0960242  
 April 2010-April 2015(\$1,633,490 NSF,\$544,268 UU Matching )
- “Utah HAWC Subcontract”  
 Los Alamos National Lab  
 December 2009-December 2011 (\$20,000)
- “Participant Support for 2010 Snowbird Workshop on  
 Particle Astrophysics, Astronomy, and Cosmology”  
 NSF Grant #PHY 0959055  
 September 2009-September 2010 (\$5000)
- “Participant Support for 2009 Snowbird Workshop on  
 Particle Astrophysics, Astronomy, and Cosmology”  
 NSF Grant #PHY 0917846  
 March 2009-March 2010 (\$5000)
- “Gamma Ray Astronomy and Astrophysics with the VERITAS Observatory”  
 NSF Grant #PHY 0856411  
 July 2009-July 2012 (\$999,146)

- “University of Utah Institutional Membership  
Sloan Digital Sky Survey III”  
Willard L. Eccles Foundation  
August 2008-August 2012 (\$450,000)
- “Facilities for Public Outreach with the Southern Utah Observatory”  
K. W. Dumke and E. R. Dumke Foundation  
July 1, 2007- June 31, 2008 (\$160,000)
- “VERITAS Operations: Utah Subcontract”  
Harvard-Smithsonian Astrophysical Observatory  
January 1, 2007 -Sept 30, 2012 (\$200,850)
- “GeV/TeV Astrophysics Research using the VERITAS Observatory”  
National Science Foundation  
NSF Grant #PHY 055545  
August 1, 2006 -August 31, 2009 (\$900,000)
- “Proposal to Build a High Altitude Observatory in Southern Utah  
for Research and Education”  
Willard L. Eccles Foundation  
August 2006-August 2009 (\$600,000)
- “GeV-TeV Gamma Ray Astronomy and Cosmic Ray Physics with Whipple/VERITAS”  
National Science Foundation  
NSF Grant #PHY 0540962 (supplemental grant)  
August 1, 2005 -August 31, 2006 (\$29,590)
- “GeV-TeV Gamma Ray Astronomy and Cosmic Ray Physics with Whipple/VERITAS”  
National Science Foundation  
NSF Grant #PHY 0099580  
August 1, 2003- August 31, 2006 (\$640,001)
- “Collaborative International Research on High Resolution Charge Measurements  
with Direct Cherenkov Light  
National Science Foundation  
NSF Grant #PHY 0244759  
August 1, 2003- August 31, 2005 (\$85,000)
- “Utah-VERITAS Observatory Construction (NSF)”  
Harvard-Smithsonian Astrophysical Observatory  
July 2003-July 2008 (\$606,294)
- “Proposal to Develop and Undergraduate program in  
Experimental/Observational Astronomy”  
Willard L. Eccles Foundation  
October 2000 (\$88,000)

- “Development and Acquisition of Electronic Instrumentation for VERITAS Consortium Array of High Energy Gamma-Ray Telescopes”  
NSF Major Research Instrumentation Proposal  
NSF Grant #PHY 0079704  
August 2000-August 2005 (\$364,167 NSF, \$156,071 UU matching)
- “Development of Calibration Systems for the VERITAS Observatory”  
Smithsonian (DOE Subcontract)  
August 1, 2000-July 1, 2010 (\$75,574)
- “Proposal to Acquire and Analyze Data from the High Resolution Fly’s Eye Detector”  
National Science Foundation  
June 1999-June 2002 (\$6,328,573)
- “Proposal to Support Utah TeV Workshop”  
National Science Foundation  
September 1999-September 2000 (\$5,000)
- “Proposal to Support the 26<sup>th</sup> International Cosmic Ray Conference”  
NASA  
September 1998-September 2000 (\$20,000)
- “Proposal to Support the 26<sup>th</sup> International Cosmic Ray Conference”  
International Union of Pure and Applied Physics  
September 1998-September 1999 (\$14,000)
- “Proposal to Support the 26<sup>th</sup> International Cosmic ray Conference”  
US Department of Energy  
September 1998-September 2000 (\$20,000)
- “Proposal to Support the 26<sup>th</sup> International Cosmic Ray Conference”  
National Science Foundation  
NSF Grant #PHY 9708210  
September 1997-September 2000 (\$30,000)
- “Proposal to Operate and Analyze Data from the Dual Imaging Čerenkov Experiment (DICE)”  
National Science Foundation  
NSF Grant # PHY 9514193  
June 1996-June 1998 (\$44,368)
- “A New Detection Technique for the Observation of ZeV Cosmic Rays”  
National Science Foundation  
NSF Grant # PHY 9527421  
July 1995- July 1997 (\$10,000)
- “Supplemental Grant-Science in Service (ASPIRE)”  
National Science Foundation  
NSF Grant #PHY 9321949  
February 1995-April 1998(\$200,494)

“High Resolution Gamma Ray Source Observations using Lunar Occultation of Sources observed by the BATSE/GRO Detector.”:

NASA Grant #NAG 5-2349

October 1, 1994 - February 15, 1996 (\$14,889)

“Staged Construction Proposal for the High Resolution Fly’s Eye Detector”

National Science Foundation

NSF Grant # PHY 9322298

September 1993 - June 1998 (\$5,154,829)

“Proposal to Operate and Analyze Data from the HiRes and Fly’s Eye Experiments”

National Science Foundation

NSF Grant # PHY 9321949

September 1993 - September 1996 (\$3,076,680)

“Constraints on Gamma Ray Burster (GRB) Source Distances Using *GRO/BATSE* Data in Coincidence with Ground-Based UHE Gamma Ray Detectors”:

NASA Grant #NAG 5-2349

September 1, 1993 - February 15, 1995 (\$16,969)

“A Cosmic Ray Observatory for Ultra-High Energy Processes”:

National Science Foundation

NSF Grant # PHY9119278

January 1, 1992 - August 31, 1994 (\$1,101,996)

“Construction of a High Resolution (HiRes) Eye Detector”:

National Science Foundation

NSF Grant # PHY 9100221

August 1, 1991 - January 31, 1995 (\$2,669,000)

NATO travel grant (1988).

National Science Foundation travel grant (1987).

### **Specific Internal Funding Awards**

- “University of Utah Institutional Membership  
Sloan Digital Sky Survey IV”  
University of Utah  
June 2013-June 2018 (\$350,000)
- “Site Selection studies for the Southern Utah Observatory”  
University of Utah Research Foundation  
Jan 1, 2007- Dec 31, 2008 (\$28,000)
- “Proposal to Operate the Utah High Energy Astrophysics Institute”  
University of Utah Research Foundation  
December 2000-December 2005(\$80,000)
- “Proposal for VERITAS Support at the University of Utah”  
University of Utah Research Foundation  
December 1998-December 2000(\$31,000)
- “University of Utah Auger Project Grant”  
University of Utah Research Foundation  
April 1997-1998 (\$150,000)
- “Development of a Variable Analog Delay Line for Analog  
Signal Processing on a Single Integrated Circuit Chip”  
University of Utah Technology Innovation Grant  
July 1996-July 1998 (\$75,300)
- “Development of Thin Film Quasicrystal Coatings”  
University of Utah Technology Innovation Grant  
July 1996-July 1998 (\$90,000)
- “Millard County Educational Outreach for the Auger Project”  
U of Utah College of Science  
Grant Awarded (\$2000) (1996)
- “Auger Project Development Proposal”  
U of Utah College of Science  
Grant Awarded (\$30,000) (1996)
- University of Utah Teaching Grant, 2009 (\$3000)
- University of Utah Teaching Grant, 2003 (\$3000)
- University of Utah Faculty Fellow, 2001-2002

## **PATENTS/TECHNOLOGY TRANSFER DISCLOSURES:**

“Surgical Electric Blade Coated With Quasicrystalline Thin Films”, D. Kieda, Thierry Klein, Orest G. Symko  
U. of Utah Technology Transfer Disclosure #U-2070

“AlCuFe Quasicrystal Thin Film Coating of Razor Blades”  
Thierry Klein, Orest G. Symko, David Kieda  
U. of Utah Technology Transfer Disclosure #U-2097

“Formation and Applications of AlCuFe Quasicrystalline Thin Films”  
Orest G. Symko, Thierry Klein and David Kieda  
U.S Patent #6,294,030 (issued Sept. 25, 2001)

“Formation and applications of AlCuFe quasicrystalline Thin Films”  
Ehab Abdol-Rahman, Orest G. Symko, Thierry Klein and David Kieda  
U.S Patent #6,712,915 (issued March 30, 2004)

“Variable Analog Delay Line for Analog Signal Processing on a Single Integrated Circuit Chip”  
D. Kieda and Michael Salamon,  
U. of Utah Technology Transfer Disclosure #U-2282  
U.S. Patent #6,222,409 (issued April 24, 2001)

“Resistive Reusable Electrosurgical Return Electrode,”  
D. Kieda, R. Fleenor, and J. Issacson  
US patent # 6,083,221 (issued July 4, 2000)

“Resistive Reusable Electrosurgical Return Electrode,”  
D. Kieda, R. Fleenor, and J. Issacson  
European Patent #WO0032122 (issued July 8, 2000)

“Capacitive Reusable Electrosurgical Return Electrode ,”  
D. Kieda, R. Fleenor, P. Borgmeier and J. Issacson  
U.S. patent #6,214,000 (issued April 10, 2001)



“Pressure Sore Pad Having Self-Limiting Electrosurgical Return Electrode Properties and Optional Heating/Cooling Capabilities ,”  
D. Kieda, R. Fleenor, P. Borgmeier and J. Issacson  
U.S. patent #6,544,258 (issued April 8, 2003)  
British Patent #BR0112779 (issued September 9, 2003)  
Canadian Patent #CN1450921 (issued October 22, 2003)  
South African Patent #ZA200208241 (issued October 09, 2003)

“Self Limiting Electrosurgical Return Electrode ,”  
D. Kieda, R. Fleenor, P. Borgmeier and J. Issacson  
European Patent #WO0187175 (issued November 11, 2001)  
European Patent #WO03094766 (issued November 20, 2003)

“Self Limiting Electrosurgical Return Electrode ,”  
D. Kieda, R. Fleenor, and J. Issacson  
U.S. patent #6,545,764 (issued September 24, 2002)

“Self Limiting Electrosurgical Return Electrode ,”  
D. Kieda, R. Fleenor, and J. Issacson  
U.S. patent #2003040741 (issued February 27, 2003)  
“Capacitive Reusable Electrosurgical Return Electrode,”  
D. Kieda, R. Fleenor, P. Borgmeier and J. Issacson  
European Patent #WO02058579 (issued August 1, 2002)

“Pressure Sore Pad Having Self-Limiting Electrosurgical Return Electrode Properties and Optional Heating/Cooling Capabilities ,”  
D. Kieda, R. Fleenor, P. Borgmeier and J. Issacson  
European Patent #EP1265672/WO02060526 (issued August 8, 2002)

“Capacitive Reusable Electrosurgical Return Electrode,”  
D. Kieda, R. Fleenor, P. Borgmeier and J. Issacson  
U.S. Patent #6,582,424 (issued June 24, 2003)

“Self-limiting Electrosurgical Return Electrode ,”  
D. Kieda, R. Fleenor, and J. Issacson  
U.S. patent #6,666,859 (issued December 23, 2003)  
U.S. patent #2003040741 (issued February 27, 2003)  
Canadian. patent #CN1452475 (issued October 29, 2003)  
British patent #BR0305714 (issued September 28, 2004)  
Australian patent #AU769908 (issued February 12, 2004)

“Self Limiting Electrosurgical Return Electrode ,”  
D. Kieda, R. Fleenor, P. Borgmeier and J. Issacson  
South Africa Patent #ZA200206435 (issued September 5, 2002)

“Self Limiting Electrosurgical Return Electrode ,”  
D. Kieda, R. Fleenor, P. Borgmeier and J. Issacson  
European Patent #WO03094766 (issued November 20, 2003)  
Canadian Patent #CN1620270 (Issued May 25, 2005)  
US Patent #7,166,102 (Issued Jan 23, 2007)  
US Patent #7,367,971 (Issued May 6, 2008)

“Resistive Reusable Electrosurgical Return Electrode,”  
D. Kieda, R. Fleenor, and J. Issacson  
NZ Patent #NZ509124 (issued October 31, 2003)

“Resistive Reusable Electrosurgical Return Electrode,”  
D. Kieda, R. Fleenor, and J. Issacson  
Canadian Patent #CN1328433T (issued December 26, 2001)

“Pressure Sore Pad Having Self-Limiting Electrosurgical Return  
Electrode Properties and Optional Heating/Cooling Capabilities ,”  
D. Kieda, R. Fleenor, P. Borgmeier and J. Issacson  
British Patent #BR0112779 (issued September 9, 2003)

## **STUDENT THESIS SUPERVISION:**

Nolan Matthews PhD (2020)  
Michael Newbold MS (2016), PhD (2020)  
Ahron Barber MS (2016), PhD (2020)  
Payel Kar MS (2016), PhD (2018)  
Andy Flinders MS (2016), PhD (2018)  
Gary Finnegan PhD (2012)  
C. Michelle Hui PhD (2011)  
Jose Cordoza M.S. (2011)  
Paul Nunez PhD (2012)  
Kent Johnson, M.S. & T (2011)  
Ben Adams M.S. Instrumentation (2009)  
Elvis Poprzenovic M.S. Instrumentation (2008)  
J. Ludlow M.S. Instrumentation (2008)  
Tate Edwards M.S. & T (2007)  
J. Dunford M.S. & T (2007)  
T. Hassel, M.S. &T (2007)  
Srilalitha Sikharam M.S. & T (2006)  
Ann Bracken M.S. & T (2006)  
Gordon Stamm M.S. & T (2006)  
K. Waller M.S. Instrumentation (2006)  
J. Hall PhD (2006)  
K. Montrone M.S. &T (2005)  
N. Shepard M.S. Instrumentation (2005)  
T. Nagai PhD (2005)  
Gary Walker (PhD 2004)  
N. Smith, M.S &T (2004)  
M. Davis, M.S &T (2004)  
G. Rosann, M.S & T (2004)  
A. Bermudez, M.S. &T. (2004)  
J. Yip, M.S. &T. (2004)  
G. Vardeny M.S Instrumentation (2003)  
J. Stucker, M.S. Instrumentation (2001)  
J. Black, M.S. Instrumentation (2000)  
Curtis Larsen M.S. (1999), PhD  
Charles Stigers, M.S. Instrumentation (1995)

Hua Ni M.S. Instrumentation (1994)  
Lex Price M.S. Instrumentation (1994)  
Rodney Freier M.S. Instrumentation (1994)  
Walter Keller, M.S. (1993)  
Bo Liu, M.S. Instrumentation (1992)

**POST-DOC SUPERVISION:**

Binita Hona (2020-present)  
Nolan Matthews (2020-2021)  
Udara Abeysekara (2014-2019)  
Farzenah Sheidaei (2011-2014)  
Andy Smith (2011-2014)  
Stephan Vincent (2008-2010)  
Petra Huntemeyer (2009-2011)  
Pierre Colin (2006-2008)  
Sagar Godambe (2008-2010)  
Hakima Manseri (2004-2006)  
R. Atkins (2004-2006)

### **Undergrad Research Supervision Since January 1, 2005:**

Erin Aadland (Moorehead State), Shannon Adams, Dan Allen, Elsbeth Allen, Chris Ballard, Devon Barros (Bridgewater State), Olduz Behad, Josh Binks, Matthew Bernstein, Patty Bolan (Boston College), Danielle Brown, Kerianna Butler (BYU), Alyssa Cassity (Smith), Rylee Cardon, Ryan Chigago (Bennington), Alice Curtin (Carleton), Jonathan Davis (UVU), Martin Earl, Gabrielle Ferreira, Alexander Fullmer, Sabrina Glade, Gary Finnegan, Andy Flinders, Spencer Hatch (Weber State), Lewis Housley, Daniel Jackson (Cal-Poly), Micah Jeppsen, Caitlan Johnson (Minnesota), Erik Johnson, Josh Kaggie, Adi Kang (Bennington), Derrick Kirkwood, Matthew Kress, Derek Kress, Curtis Larsen (Dixie State), Zephne Larsen (BYU), Bryan Lewis (Virginia), Alexandria Luttery (Bennington), Charles MacGuire, Abigail McBride (SDSM), Jeremy Meyer, Cherie Nielsen, Michael Newbold, Sahar Nikkah (Ohio State), Nathan Odendahl, Alexis Olson, Alexandria Parrey, Anna Payne (Wellesley), Khoa Pham (Columbia), Ryan Price, Mikaela Ray, Paul Ricketts, Janvida Rou, Dave Rosen, Alex Royzman, Jed Schmidt (Columbia), Thulasi Seshan, Matt Shaw, Ryan Sincic, Mike Snure, Ian Sohl, Tom Stoksus, Brianna Thorpe (ASU), Gabriela Torrini (Ohio State), Aaron Virshup (UIUC), Steven Wold, Tim Wolf (Cal Poly), Tingshuan Wu, Zachary Zundel

## REFEREED PUBLICATIONS

1. “The Homestake Scintillation Detectors: A Status Report,” M.L. Cherry, S. Corbató, T. Daily, D. Kieda, K. Lande, and C.K. Lee, *Il Nuovo Cimento* **9C**, 210 (1986).
2. “Cosmic Ray Composition and Muon Decoherence at the Knee of the All Particle Spectrum”, D. Kieda, PhD Thesis, University of Pennsylvania (February 1989).
3. “Search for  $\gamma$  Rays above  $10^{14}$  eV from Cygnus X-3 during the June and July 1989 Radio Outbursts,” G. L. Cassiday *et al.*, *Phys. Rev. Lett.* **21**, 2329 (1989).
4. “A Coarse-grain Search for Anisotropy in the Arrival Directions of Cosmic Rays Above  $10^{17}$  eV,” G. L. Cassiday *et al.*, *Ap. J.* **351**, 454 (1990).
5. “Measurements of Cosmic-Ray Air Shower Development at Energies above  $10^{17}$  eV,” G. L. Cassiday *et al.*, *Ap. J.*, **356**, 669 (1990).
6. “A Measurement of the Cosmic Ray Primary Composition Between  $3 \times 10^{13} - 3 \times 10^{15}$  eV Using Multiple Muon Rates,” D. Cebula *et al.*, *Ap. J.* **358**, 637 (1990).
7. “Search for  $> 200$  TeV Photons from Cygnus X-3 in 1988 and 1989,” D. Ciampa *et al.*, *Phys. Rev. D* **42**, 281 (1990).
8. “Search for Diffuse Cosmic Gamma Rays Above 200 TeV,” J. Matthews *et al.*, *Ap. J.* **375**, 202 (1991).
9. “Cosmic Ray Composition Around  $10^{18}$  eV”, T. K. Gaisser *et al.*, *Phys. Rev. D* **47**, 1919 (1993)
10. “A Northern Sky Survey For Astrophysical Point Sources of 100 TeV Gamma Radiation,” T. McKay *et al.*, *Ap. J.* **417**, 742 (1993).
11. “Observation of the Shadows of the Moon and Sun using 100 TeV Cosmic Rays”, A. Borione *et al.*, *Phys. Rev. D* **49**, 1171 (1994).
12. “Evidence for Correlated Changes in the Spectrum and Composition of Cosmic Rays at Extremely High Energies”, D. J. Bird *et al.*, *Phys. Rev. Letters* **71**, 3401(1993).

13. "Cosmic Ray Energy Spectrum Observed by the Fly's Eye", D. J. Bird *et al.*, *Ap. J.* **424**, 497 (1994).
14. "A Study of the Chemical Composition of Cosmic Rays Around  $10^{18}$  eV", T. K. Gaisser *et al.*, *Comments Astrophys.* **2 & 3** pp. 103-117 (1993).
15. "Detection of a Cosmic Ray with Measured Energy Well Beyond the Expected Spectral Cutoff Due to Cosmic Microwave Radiation," D. J. Bird *et al.*, *Ap. J.* **441**, 144 (1995)
16. "The Calibration of the Absolute Sensitivity of Photomultiplier Tubes in the High Resolution Fly's Eye Detector", D. Bird *et al.*, *Nucl. Instr. Meth. in Phys.* **A349**, 592 (1994).
17. "A New Generation Gamma Ray Telescope", S. P. Ahlen *et al.*, *Nucl. Instr. Meth. in Phys.* **A 351**, 493 (1994).
18. "A New Technique for the Observation of EeV and ZeV Cosmic Rays", D. B. Kieda, *Ap. Phys.* **4**, 133 (1995).
19. "A Search for Ultra-High Energy Gamma Rays from Active Galactic Nuclei with CASA-MIA", M. Catanese *et al.*, *Ap. J.* **469**, 572 (1996).
20. "Optimization of Event Angular Reconstruction for an Air Cerenkov Array Detector of EeV/ZeV Cosmic Rays", D. B. Kieda and D. J. Suson, *Nucl. Inst. Meth. Phys.* **A 374**, 381 (1996).
21. "A Search for Ultrahigh Energy Gamma-Ray Emission from the Crab nebula and Pulsar", A. Borione *et al.*, *Ap. J.* **481**, 313 (1997).
22. "A High Statistics Search for Ultra-High-Energy Gamma-Ray Emission from Cygnus X-3 and Hercules X-1", A. Borione *et al.*, *Phys. Rev. D* **55**, 1714 (1997).

23. "Constraints on Gamma-ray Emission from the Galactic Plane at 300 TeV", A. Borione *et al.*, *Ap. J.* **493**, 175 (1998).
24. "A New Measurement of Cosmic ray Composition at the knee", K. Boothby *et al.*, *Ap. J. Lett.* **491**, L35 (1997).
25. "Limits on the Isotropic Diffuse Flux of Ultra High Energy  $\gamma$  Radiation", A. Borione *et al.*, *Phys. Rev. Lett.* **79**, 10, 1805 (1997).
26. "Radio Controlled Xenon Flashers for Atmospheric Monitoring at the HiRes Cosmic ray Observatory", D. J. Bird *et al.*, *Nucl. Instr. Meth. in Phys. Res.* **428**, 593 (1999).
27. "Study of Broad-Scale Anisotropy of Cosmic-Ray Arrival Directions from  $2 \times 10^{17}$  to  $10^{20}$  Electron Volts from Fly's Eye Data", D. Bird *et al.*, *Ap. J.* **511**, 739 (1999).
28. "The Cosmic Ray Composition between  $10^{14}$  and  $10^{16}$  eV", M.A.K. Glasmacher *et al.*, *Ap. Phys.* **12**, 1 (1999).
29. "The Cosmic Ray Energy Spectrum Between  $10^{14}$  and  $10^{16}$  eV", M.A.K. Glasmacher *et al.*, *Ap. Phys.* **10**, 291 (1999).
30. "Geometrical Reconstruction with The High Resolution Fly's Eye prototype cosmic ray detector", C. R. Wilkinsen *et al.*, *Ap. Phys.* **12**, 121 (1999).
31. "Elemental Composition of Cosmic Rays Near the Knee by Multi-parameter Measurements of Air Showers", AS. P. Swordy and D. B. Kieda, *Ap. Phys.* **13**, 137 (2000)
32. "Evidence for Changing of Cosmic Ray Composition Between  $10^{17}$  and  $10^{18}$  eV from Multi-Component Measurements", T. Abu-Zayyad *et al.*, *Phys. Rev. Lett.* **84**, 4276 (2000).
33. "A High Resolution Method for Measuring Cosmic Ray Composition beyond 10 TeV", D. B. Kieda *et al.*, *Ap. Phys.* **15**, 287 (2001).



34. "Measurement of the Cosmic Ray Energy Spectrum and Composition from  $10^{17}$  to  $10^{18.3}$  eV Using a Hybrid Fluorescence Technique", T. Abu-Zayyad *et al.*, *Ap. J.* **557**, 686 (2001).
35. "A Measurement of the Cosmic ray Spectrum and Composition at the Knee ", J. W. Fowler *et al.*, *Ap. Phys.* **15**, 49 (2001)
36. "The Prototype High-Resolution Fly's Eye Cosmic Ray Detector.", T. Abu-Zayyad *et al.*, *Nucl. Instrum. Meth Phys.* **A450**, 253 (2000).
37. "VERITAS: the Very Energetic Radiation Imaging Telescope Array System", T. C. Weekes *et al.*, *Ap. Phys.* **17**, 221 (2002).
38. "Cutoff in the TeV Energy Spectrum of Markarian 421 During Strong Flares in 2001", F. Krennrich *et al.*, *Ap. J. Lett.* **560**, L45 (2001).
39. "The Composition of Cosmic Rays at the Knee", S. P. Swordy *et al.*, *Ap. Phys.* **18** 129 (2002).
40. "Detection of the BL Lac Object 1H1426+428 at TeV Gamma Ray Energies", D. Horan *et al.*, *Ap. J.* **571**, 753 (2002).
41. "The TeV spectrum of H1426+428", D. Petry *et al.*, *Ap. J.* **580** 104 (2002).
42. "Discovery of Spectral Variability of Markarian 421 at TeV Energies", F. Krennrich *et al.*, *Ap. J. Letters* **575** L9 (2002).
43. "Detection of TeV Gamma Rays from the BL Lac Object 1ES1959+650 with the Whipple 10m Telescope", J. Holder *et al.*, *Ap. J. Lett.* **583**, L9 (2003).
44. "TeV Emissions from Pulsars in Binary Systems", T. A. Hall *et al.*, *Ap. J.* **583**, 853 (2003).

45. “Geometry and Optics Calibration for Air Fluorescence Detectors Using Star Light”, P. Sadowski *et al.*, *Ap. Phys.* **18**, 237 (2002).
46. “Search for High-Energy Gamma Rays from an X-Ray-selected Blazar Sample”, I. de la Calle Perez *et al.*, *Ap. J.* **599**, 909 (2003).
47. “Evidence for New Unidentified TeV  $\gamma$ -ray Sources from Angularly Correlated Hot Spots Observed by Independent TeV  $\gamma$ -ray Sky Surveys”, G. Walker *et al.*, *Ap. J. Lett.* **614**, L93 (2004).
48. “A Search for TeV Gamma-Ray Emission from High-peaked Flat-Spectrum Radio Quasars Using the Whipple Air Cerenkov Telescope”, A. Falcone *et al.*, *Ap. J.* **613**, 710 (2004).
49. “Observation of M87 with the Whipple 10 m Telescope”, S. LeBohec *et al.*, *Ap. J.* **610**, 156 (2004).
50. “TeV Gamma-Ray Observations of the Galactic Center”, K. Kosack *et al.*, *Ap. J. Lett.* **608**, L97 (2004).
51. “Measurement of the Flux of Ultrahigh Energy Cosmic Rays from Monocular Observations by the High Resolution Fly’s Eye Experiment”, R. U. Abbassi *et al.*, *Phys. Rev. Lett.* **92**, 151101 (2004).
52. “Whipple Telescope Observations of Potential TeV  $\gamma$ -ray Sources Found by the Tibet Air Shower Array”, G. Walker and D. Kieda *New Astr. Rev.* **48**, 477 (2004).
53. “VERITAS: the Very Energetic Radiation Imaging Telescope Array System”, F. Krennrich *et al.*, *New Astr. Rev.* **48**, 345 (2004).
54. “Constraints on the Very High Energy Emission from BL Lacertae Objects”, D. Horan *et al.*, *Ap. J.* **603**, 51 (2004).
55. “Monocular Measurement of the Spectrum of UHE Cosmic Rays by the FADC Detector of The HiRes Experiment”, R. Abbasi *et al.*, *Ap. Phys.*, **23**, 2, 157 (2005).

56. "Spectrum of Very High Energy Gamma-Rays from the blazar 1ES 1959+650 during Flaring Activity in 2002", M. K. Daniel *et al.*, *Ap. J.*, **621**, 181 (2005).
57. "A Survey of Unidentified EGRET Sources at Very High Energies", S. J. Fegan *et al.*, *Ap. J.*, **624**, 638 (2005).
58. "A Multiwavelength View of the TeV Blazar Markarian 421: Correlated Variability, Flaring, and Spectral Evolution", M. Blazejowski *et al.*, *Ap. J.*, **630**, 130 (2005).
59. "A Very High Energy Gamma-Ray Spectrum of 1ES 2344+514", M. Schroedter *et al.*, *Ap. J.*, **634**, 947 (2005).
60. "The First VERITAS Telescope", J. Holder *et al.*, *Ap. Phys.* **25**,391 (2006).
61. "Multiwavelength Observations of 1ES 1959+650, 1 Year after the Strong Outburst of 2002", K. Guiterrez *et al.*, *Ap. J.* **644**, 2, 742 (2006).
62. "TeV Gamma-Ray Observations of the Perseus and Abell 2029 Galaxy Clusters", J. Perkins *et al.* *Ap. J.* **644**, 1, 148 (2006).
63. "Multiwavelength Observations of the Blazar Markarian 421 in 2002 December and 2003 January", *Ap. J.* **641**, 2, 740 (2006.)
64. "A New Search for Primordial Black Hole Evaporations Using the Whipple Gamma-Ray Telescope", *J. Cosm. and Ap. Phys.* **1**. 13 (2006).
65. "Very High Energy Observations of Gamma-Ray Burst Locations with the Whipple Telescope", D. Horan *et al.*, *Ap. J.* **655**, 396 (2007).

66. “Observations of the Unidentified TeV  $\gamma$ -Ray Source TeV J2032+4130 with the Whipple Observatory 10 m Telescope”, A. Konopelko *et al.*, *Ap. J.* **658**, 1062 (2007).
67. “Whipple telescope observations of LS I +61 303: 2004-2006”, A. Smith *et al.*, *Astr. & SS* **309**,299 (2007).
68. “Multiwavelength Observations of Markarian 421 in March 2001: an Unprecedented View on the X-ray/TeV Correlated Variability”, G. Fossati *et al.*, *Ap. J.* **677**, 906 (2008).
69. “A Search for Dark Matter Annihilation with the Whipple 10m Telescope”, M. Wood *et al.*, *Ap. J.* **678**, 594 (2008).
70. “Observation of gamma-ray emission from the galaxy M87 above 250 GeV with VERITAS”, A. Acciari *et al.*, *Ap. J.* **679**, 397 (2008).
71. “VERITAS Observations of the gamma-Ray Binary LS I +61 303”, A. Acciari *et al.*, *Ap. J.* **679**, 1427 (2008).
72. “ VERITAS Discovery of  $\gtrsim$ 200 GeV Gamma-Ray Emission from the Intermediate-Frequency-Peaked BL Lacertae Object W Comae”, A. Acciari *et al.*, *Ap. J. Lett.* **684**, L73 (2008).
73. “ First results from VERITAS”, D. Hanna *et al.*, *Nucl. Inst. Meth. Phys. A* **588**, 26 (2008).
74. “ Discovery of Very High Energy Gamma-ray Radiation from the BL Lac 1ES 0806+524”, A. Acciari *et al.*, *Ap. J. Lett.* **690**, L126 (2009).
75. “Detection of Extended VHE Gamma Ray Emission from G106.3+2.7 with Veritas”, A. Acciari *et al.*, *Ap. J. Lett.* **703**, L6 (2009).
76. “ Observation of Extended Very High Energy Emission from the Supernova Remnant IC 443 with VERITAS”, A. Acciari *et al.*, *Ap. J. Lett.* **698**, L133 (2009).

77. “Multiwavelength Observations of LS I +61\* 303 with Veritas, Swift, and RXTE ”, A. Acciari *et al.*, *Ap. J.* **700**, 1034 (2009).
78. “Veritas Observations of a Very High Energy gamma-Ray Flare From the Blazar 3C 66A”, A. Acciari *et al.*, *Ap. J. Lett.* **693**, L104 (2009).
79. “Evidence for Long-Term Gamma-Ray and X-Ray Variability from the Unidentified TeV Source HESS J0632+057”, A. Acciari *et al.*, *Ap. J. Lett.* **698**, L94 (2009).
80. “VERITAS Observations of the BL Lac Object 1ES 1218+304”, A. Acciari *et al.*, *Ap. J.* **695**, 1370 (2009).
81. “Simultaneous Multiwavelength Observations of Markarian 421 During Outburst ”, A. Acciari *et al.*, *Ap. J.* **703**, 169 (2009).
82. “The June 2008 Flare of Markarian 421 from Optical to TeV Energies”, I. Donnarumma, *et al.*, *Ap. J. Lett.* **691**, L13 (2009).
83. “Radio Imaging of the Very-High-Energy  $\gamma$ -Ray Emission Region in the Central Engine of a Radio Galaxy”, M. Beilicke *et al.*, *Science* **325**, 444 (2009).
84. “ A connection between star formation activity and cosmic rays in the starburst galaxy M82”, A. Acciari *et al.*, *Nature* **462**, 7274, 770 (2009).
85. “VERITAS Upper Limit on the Very High Energy Emission from the Radio Galaxy NGC 1275”, A. Acciari *et al.*, *Ap. J. Lett.* **706**, 2, L275-L280 (2009).
86. “Multiwavelength Observations of a Tev-Flare from W Comae”, A. Acciari *et al.*, *Ap. J.* **707**, 1, 612 (2009).

87. “Discovery of Very High Energy Gamma Rays from PKS 1424+240 and Multiwavelength Constraints on Its Redshift”, A. Acciari *et al.*, *Ap. J. Lett.* **708**, 2, L100-L106 (2010).
88. “The Discovery of  $\gamma$ -Ray Emission from the Blazar RGB J0710+591”, A. Acciari *et al.*, *Ap. J. Lett.* **715** L49-L55 (2010).
89. “VERITAS Search for VHE Gamma-ray Emission from Dwarf Spheroidal Galaxies”, A. Acciari *et al.*, *Ap. J.* **720**, 2, 1174 (2010).
90. “Discovery of Variability in the Very High Energy gamma-Ray Emission of 1ES 1218+304 with VERITAS”, A. Acciari *et al.*, *Ap. J. Lett.* **709**, 2, L163 (2010).
91. “Veritas 2008-2009 Monitoring of the Variable Gamma-ray Source M87”, A. Acciari *et al.*, *Ap. J.* **716**, 1, 819 (2010).
92. “Discovery of Very High Energy gamma-ray Emission from the SNR G54.1+0.3”, A. Acciari *et al.*, *Ap. J. Lett.* **719**, 1, L69 (2010).
93. “VERITAS Observations of a Very High Energy  $\gamma$ -ray Flare from the Blazar 3C 66A ”, A. Acciari *et al.*, *Ap. J. Lett.* **721**, L203 (2010).
94. “Observations of the Shell-type Supernova Remnant Cassiopeia A at TeV Energies with VERITAS”, A. Acciari *et al.*, *Ap. J.* **714**, 1, 163 (2010).
95. “Spectral Energy Distribution of Markarian 501: Quiescent State vs. Extreme Outburst,” V. A. Acciari *et al.*, *Ap. J.* **729**, 2 (2011).
96. “Insights Into the High-Energy Gamma-ray Emission of Markarian 501 from Extensive Multifrequency Observations in the Fermi Era,” A. A. Abdo *et al.* *Ap. J.* **727**, 129 (2011).
97. “Multi-wavelength Observations of the Flaring Gamma-ray Blazar 3C 66A in 2008 October,” A. A. Abdo *et al.* *Ap. J.* **726**, 43 (2011).

98. "VERITAS: Status Summary 2009," T. C. Weekes *et al.* *Int. J. Mod. Phys. D* **19**, 1003-1012 (2010).
99. "The Track Imaging Cerenkov Experiment," S. A. Wissel *et al.*, *Nucl. Instrum. Meth. Phys* **A659**, 175-181 (2011).
100. "VERITAS Observations of the Unusual Extragalactic Transient Swift J164449.3+573451," E. Aliu *et al.*, *Ap. J. Lett.* **738**, 2, L30 (2011).
101. "Multiwavelength Observations of the VHE Blazar 1ES 2344+514," V. A. Acciari *et al.*, *Ap. J.* **738**, 169 (2011).
102. "TeV and Multi-wavelength Observations of Mrk 421 in 2006-2008," V. A. Acciari *et al.*, *Ap. J.* **738**, 25 (2011).
103. "VERITAS Observations of the TeV Binary LS I +61 303 During 2008-2010," V. A. Acciari *et al.*, *Ap. J.* **738**, 3 (2011).
104. "Discovery of TeV Gamma Ray Emission from Tycho's Supernova Remnant," V. A. Acciari *et al.*, *Ap. J. Lett.* **730**, L20 (2011).
105. "VERITAS Observations of the Unusual Extragalactic Transient Swift J164449.3+573451," E. Aliu *et al.*, *Ap. J.*, **742**, 127 (2011).
106. "Multiwavelength Observations of the Previously Unidentified Blazar RX J0648.7+1516," E. Aliu *et al.*, *Ap. J.*, **742**, 127 (2011).
107. "VERITAS Observations of Gamma-Ray Bursts Detected by Swift," V. A. Accirari *et al.*, *Ap. J.*, **743**, 62 (2011).
108. "On the sensitivity of the HAWC observatory to gamma-ray bursts," A. U. Abeysekara *et al.*, *Ap. Phys.* **35**, 10, 641-650 (2012).
109. "High angular resolution imaging with stellar intensity interferometry using air Cherenkov telescope arrays," P. D. Nunez *et al.*, *M.N.R.A.S.* **419**, 1, 172 (2012).

110. "Detection of Pulsed Gamma Rays Above 100 GeV from the Crab Pulsar," E. Aliu *et al.*, *Science* **334**, 69-72 (2011).
111. "VERITAS Observations of day-scale flaring of M87 in April 2010," E. Aliu *et al.*, *Ap. J.* **746**, 141 (2012).
112. "The 2010 Very High Energy -Ray Flare and 10 Years of Multi-wavelength Observations of M 87," A. Abramowski *et al.*, *Ap. J.* **746**, 151 (2012).
113. "Discovery of High-energy and Very High Energy -Ray Emission from the Blazar RBS 0413," E. Aliu *et al.*, *Ap. J.* **750**, 94 (2012).
114. "VERITAS Observations of the Nova in V407 Cygni," E. Aliu *et al.*, *Ap. J.* **754**, 77 (2012).
115. "Multiwavelength Observations of the AGN 1ES 0414+009 with VERITAS, Fermi-LAT, Swift-XRT, and MDM," E. Aliu *et al.*, *Ap. J.* **755**, 118 (2012).
116. "Constraints on Cosmic Rays, Magnetic Fields, and Dark Matter from Gamma-Ray Observations of the Coma Cluster of Galaxies with VERITAS and Fermi," T. Arlen *et al.*, *Ap. J.* **757**, 123 (2012).
117. "Imaging submilliarcsecond stellar features with intensity interferometry using air Cherenkov telescope arrays," P. D. Nunez *et al.*, *M.N.R.A.S.* **424**, 2, 1006 (2012).
118. "VERITAS deep observations of the dwarf Spheroidal galaxy Segue 1," E. Aliu *et al.*, *Phys. Rev.* **D85**, 062001 (2012).
119. "VERITAS Observations of Six Bright Hard-Spectrum FERMI-LAT Blazars," E. Aliu *et al.*, *Ap. J.* **759**, 102 (2012).
120. "Search for a Correlation Between Very-High-Energy Gamma Rays and Giant Radio Pulses in the Crab Pulsar," E. Aliu *et al.*, *Ap. J.* **760**, 136 (2012).



121. "Rapid TeV Flaring of BL Lacertae," T. Arlen *et al.*, *Ap. J* **762**, 92 (2013).
122. "Discovery of TeV Gamma-Ray Emission from CTA 1 By VERITAS," E. Aliu *et al.*, *Ap. J* **764**, 38 (2013).
123. "Sensitivity of the high altitude water Cherenkov detector to sources of multi-TeV gamma rays," A. U. Abeysekara *et al.*, *Ap. Phys.* **50**, 26 (2013).
124. "Introducing the CTA concept," B. S. Acharya *et al.*, *Ap. Phys.* **3**, 3 (2013).
125. "Discovery of TeV Gamma-Ray Emission toward Supernova Remnant SNR G78.2+2.1," E. Aliu *et al.*, *Ap J.* **770**, 93 (2013).
126. "Discovery of a New TeV Gamma-Ray Source: VER J0521+211," S. Archambault *et al.*, *Ap. J.* **776**, 69 (2013).
127. "Multiwavelength Observations and Modeling of 1ES 1959+650 in a Low Flux State," E. Aliu *et al.*, *Ap. J.* **775**, 3 (2013).
128. "Monte Carlo simulation of stellar intensity interferometry," J. Rou *et al.*, *M.N.R.A.S.* **430** , 3187 (2013).
129. "Multiwavelength Observations of the TeV Binary LS I +61 303 with VERITAS, Fermi-LAT, and Swift/XRT during a TeV Outburst," E. Aliu *et al.*, *Ap. J.* **779** , 88 (2013).
130. "VERITAS Observations of the Microquasar Cygnus X-3," E. Aliu *et al.*, *Ap. J.* **779** , 150 (2013).
131. "Long Term Observations of B2 1215+30 with VERITAS," E. Aliu *et al.*, *Ap. J.* **119** , 92 (2013).
132. "Deep Broadband Observations of the Distant Gamma-Ray Blazar PKS 1424+240," S. Archambault *et al.*, *Ap.J.* **785**, 16 (2014).

133. “Observations of the Unidentified Gamma-Ray Source TeV J2032+4130 by VERITAS,” E. Aliu *et al.*, *Ap. J.* **783**, 16 (2014).
134. “Spatially Resolving the Very High Energy Emission from MGRO J2019+37 with VERITAS,” E. Aliu *et al.*, *Ap. J.* **788**, 78 (2014).
135. “A Three-year Multi-wavelength Study of the Very-high-energy - Ray Blazar 1ES 0229+200,” E. Aliu *et al.*, *Ap. J.* **782**, 13 (2014).
136. “Long-term TeV and X-Ray Observations of the Gamma-Ray Binary HESS J0632+057,” E. Aliu *et al.*, *Ap. J.* **780**, 168 (2014).
137. “A Search for Enhanced Very High Energy Gamma-Ray Emission from the 2013 March Crab Nebula Flare,” E. Aliu *et al.*, *Ap. J.* **781**, 11 (2014).
138. “Constraints on Very High Energy Emission from GRB 130427A,” E. Aliu *et al.*, *Ap. J.* **795**, 3 (2014).
139. “Very-high Energy Observations of the Galactic Center Region by VERITAS in 2010-2012,” A. Archer *et al.*, *Ap. J.* **790**, 149 (2014).
140. “Test of Models of the Cosmic Infrared Background with Multi-wavelength Observations of the Blazar 1ES 1218+30.4 in 2009,” S. Archambault *et al.*, *Ap. J.* **788**, 158 (2014).
141. “Investigating the TeV Morphology of MGRO J1908+06 with VERITAS,” E. Aliu *et al.*, *Ap. J.* **787**, 166 (2014).
142. “Observation of Markarian 421 in TeV gamma rays over a 14-year time span,” V. A. Acciari *et al.*, *Ap. J.* **119**, 92 (2014).
143. “Observation of Small-scale Anisotropy in the Arrival Direction Distribution of TeV Cosmic Rays with HAWC,” A. U. Abeysekara *et al.*, *Ap. J.* **796**, 108 (2014).
144. “Investigating Broadband Variability of the TeV Blazar 1ES 1959+650,” S. Archambault *et al.*, *Ap. J.* **797**, 89 (2014).

145. "Sensitivity of HAWC to high-mass dark matter annihilations," A. U. Abeysekara *et al.*, *Phys. Rev. D* **90**, 122002 (2014).
146. "Multiwavelength observations of Mrk 501 in 2008," J. Aleksic *et al.*, *A & A* **573**, A50 (2015).
147. "VERITAS Observations of the BL Lac Object PG 1553+113," E. Aliu *et al.*, *Ap. J.* **799**, 7 (2015).
148. "The most powerful flaring activity from the NLSy1 PMN J0948+0022," F. D'Ammando *et al.*, *MNRAS* **446**, 2456 (2015).
149. "A Search for Pulsations from Geminga above 100 GeV with VERITAS," E. Aliu *et al.*, *Ap. J.* **800**, 61 (2015).
150. "Search for Gamma-Rays from the Unusually Bright GRB 130427A with the HAWC Gamma-Ray Observatory," A. U. Abeysekara *et al.*, *Ap. J.* **800**, 78 (2015).
151. "VAMOS: A pathfinder for the HAWC gamma-ray observatory," A. U. Abeysekara *et al.*, *Ap. Phys* **62**, 125 (2015).
152. "The 2009 multiwavelength campaign on Mrk 421: Variability and correlation studies," J. Aleksic *et al.*, *A & A* **576**, A126 (2015).
153. "Milagro limits and HAWC sensitivity for the rate-density of evaporating Primordial Black Holes," A.A. Abdo *et al.*, *Ap. Phys.* **64**, 4 (2015).
154. "Unprecedented study of the broadband emission of Mrk 421 during flaring activity in March 2010," J. Aleksic *et al.*, *A & A* **578**, A22 (2015).
155. "VERITAS Detection of -Ray Flaring Activity From the BL Lac Object 1ES 1727+502 During Bright Moonlight Observations," S. Archambault *et al.*, *Ap. J.* **808**, 110 (2015).

156. “First NuSTAR Observations of Mrk 501 within a Radio to TeV Multi-Instrument Campaign,” A. Furniss *et al.*, *Ap. J.* **812**, 65 (2015).
157. “Gamma-Rays from the Quasar PKS 1441+25: Story of an Escape,” A. U. Abeysekara *et al.*, *Ap. J. Lett* **815**, L22 (2015).
158. “A Search for Brief Optical Flashes Associated with the SETI Target KIC 8462852,” A. U. Abeysekara *et al.*, *Ap. J. Lett.* **818**, L33 (2016).
159. “VERITAS and multiwavelength observations of the BL Lacertae object 1ES 1741+196,” A. U. Abeysekara *et al.*, *MNRAS* **459**, 2550 (2016).
160. “Search for TeV Gamma-Ray Emission from Point-like Sources in the Inner Galactic Plane with a Partial Configuration of the HAWC Observatory,” A. U. Abeysekara *et al.*, *Ap. J.* **817**, 3 (2016).
161. “Upper Limits from Five Years of Blazar Observations with the VERITAS Cherenkov Telescopes.,” S. Archambault *et al.*, *Astron. J.* **151**, 142 (2016).
162. “Discovery of Very High Energy Gamma Rays from 1ES 1440+122,” S. Archambault *et al.*, *MNRAS* **461**, 202 (2016).
163. “Exceptionally Bright TeV Flares from the Binary LS I +61 303,” S. Archambault *et al.*, *Ap. J. Lett.* **817**, L7 (2016).
164. “TeV Gamma-Ray Observations of the Galactic Center Ridge by VERITAS,” A. Archer *et al.*, *Ap. J.* **821**, 129 (2016).
165. “Multiwavelength Study of Quiescent States of Mrk 421 with Unprecedented Hard X-Ray Coverage Provided by NuSTAR in 2013.,” M. Balokovi *et al.*, *Ap. J.* **819**, 156 (2016).

166. “Very-high-energy observations of the binaries V 404 Cyg and 4U 0115+634 during giant X-ray outbursts,” A. Archer *et al.*, *Ap. J.* **831**, 113 (2016).
167. “A Search for Very High-Energy Gamma Rays from the Missing Link Binary Pulsar J1023+0038 with VERITAS,” E. Aliu *et al.*, *Ap. J.* **831**, 193 (2016).
168. “Very high energy outburst of Markarian 501 in May 2009,” E. Aliu *et al.*, *A & A* **594**, A76 (2016).
169. “Very high-energy gamma-ray follow-up program using neutrino triggers from IceCube,” IceCube Collaboration, Aartsen, M. G., Abraham, K., *et al.*, *J. Inst.*, **11**, P11009 (2016).
170. “Search for TeV Gamma-Ray Emission from Point-like Sources in the Inner Galactic Plane with a Partial Configuration of the HAWC Observatory,” A. U. Abeysekara *et al.*, *Ap. J.* **817**, 3 (2016).
171. “Exceptionally Bright TeV Flares from the Binary LS I +61 303,” S. Archambault *et al.*, *Ap. J. Lett.* **817**, L7 (2016).
172. “A Search for Brief Optical Flashes Associated with the SETI Target KIC 8462852,” A. U. Abeysekara *et al.*, *Ap. J. Lett.* **818**, L33 (2016).
173. “Discovery of very high energy emission from RGB J2243+203 and derivation of its redshift upper limit,” A. U. Abeysekara *et al.*, *Ap. J. Suppl.* **233**, 1, 7 (2017).
174. “Observation of the Crab Nebula with the HAWC Gamma-Ray Observatory,” A. U. Abeysekara *et al.*, *Ap. J.* **843**, 1, 39 (2017).
175. “Extended gamma-ray sources around pulsars constrain the origin of the positron flux at Earth,” A. U. Abeysekara *et al.*, *Science* **358**, 6365, 911(2017).

- 176."Search for Very High-energy Gamma Rays from the Northern Fermi Bubble Region with HAWC," A. U. Abeysekara *et al.*, *Ap. J.* **842**, 2, 85 (2017).
- 177."The 2HWC Observatory Gamma-Ray Catalog," A. U. Abeysekara *et al.*, *Ap. J.* **843**, 1, 40 (2017).
- 178."A Luminous and Isolated Gamma-ray Flare from the Blazar B2 1215+30," A. U. Abeysekara *et al.*, *Ap. J.* **836**, 2, 205 (2017).
- 179."Search for Spectral Hysteresis and Energy-dependent Time Lags from X-Ray and TeV Gamma-Ray Observations of Mrk 421," A. U. Abeysekara *et al.*, *Ap. J.*, **834**, 1, 2 (2017).
- 180."Search for Magnetically Broadened Cascade Emission from Blazars with VERITAS," S. Archambault *et al.*, *Ap. J.*, **835**, 2, 288 (2017).
- 181."Gamma-Ray Observations of Tycho's Supernova Remnant with VERITAS and Fermi," S. Archambault *et al.*, *Ap. J.*, **836**, 1, 23 (2017).
- 182."Dark matter constraints from a joint analysis of dwarf Spheroidal galaxy observations with VERITAS," S. Archambault *et al.*, *Physical Review D*, **95**, 8, id.082001 (2017)
- 183."Daily Monitoring of TeV Gamma-Ray Emission from Mrk 421, Mrk 501, and the Crab Nebula with HAWC," A. U. Abeysekara *et al.*, *Ap. J.* **841**, 2, 100 (2017).
- 184."The HAWC Real-time Flare Monitor for Rapid Detection of Transient Events," A. U. Abeysekara *et al.*, *Ap. J.* **843**, 2, 116 (2017).
- 185."Multiband variability studies and novel broadband SED modeling of Mrk 501 in 2009," M. L. Ahnen *et al.*, *A & A* **603**, A31, 30 (2017).
- 186."Gamma-ray observations under bright moonlight with VERITAS," S. Archambault *et al.*, *Ap. Phys.* **91**, 34 (2017).

- 187."Search for Very-high-energy Emission from Gamma-Ray Bursts Using the First 18 Months of Data from the HAWC Gamma-Ray Observatory," R. Alfaro *et al.*, *Ap. J.* **843**, 2, 88 (2017).
- 188."Multi-messenger Observations of a Binary Neutron Star Merger," Abbott, B. P., Abbott, R., Abbott, T. D. *et al.*, *Ap. J.* , **848**, L12 (2017).
- 189."Very-High-Energy -Ray Observations of the Blazar 1ES 2344+514 with VERITAS," Allen, C., Archambault, S., Archer, A. *et al.*, *MNRAS* , **471**, 2117 (2017).
- 190."Development of a digital astronomical intensity interferometer: laboratory results with thermal light," N. Matthews, D. Kieda and S. LeBohec, *J. Mod. Optics*, **65**, 1336 (2018).
- 191."A Strong Limit on the Very-high-energy Emission from GRB 150323A," Abeysekara, A. U., Archer, A., Benbow, W., *et al.*, *Ap. J.* , **857**, 33 (2018).
- 192."A Very High Energy -Ray Survey toward the Cygnus Region of the Galaxy," Abeysekara, A. U., Archer, A., Aune, T. *et al.*, *Ap. J.* , **861**, 134 (2018).
- 193."VERITAS Observations of the BL Lac Object TXS 0506+056," Abeysekara, A. U., Archer, A., Benbow, W. *et al.*, *Ap. J.* , **861**, L20 (2018).
- 194."HESS J1943+213: An Extreme Blazar Shining through the Galactic Plane," Archer, A., Benbow, W., Bird, R. *et al.*, *Ap. J.* , **862**, 41 (2018).
- 195."Measurement of the iron spectrum in cosmic rays by VERITAS," Archer, A., Benbow, W., Bird, R., *et al.* 2018, *Phys. Rev. D* , **98**, 22009 (2018).

- 196."Multi-messenger observations of a flaring blazar coincident with high-energy neutrino IceCube-170922A," IceCube Collaboration, Aartsen, M. G., Ackermann, M. *et al.*, *Science* **361**, eaat1378 (2018).
- 197."Measurement of cosmic-ray electrons at TeV energies by VERITAS", Archer, A., Benbow, W., Bird, R. *et al.*, *Phys. Rev. D* , **98**, 62004 (2018).
- 198."VERITAS and Fermi-LAT Observations of TeV Gamma-Ray Sources Discovered by HAWC in the 2HWC Catalog," Abeysekara, A. U., Archer, A., Benbow, W. *et al.*, *Ap. J.* , **866**, 24 (2018).
- 199."Periastron Observations of TeV Gamma-Ray Emission from a Binary System with a 50-year Period," Abeysekara, A. U., Benbow, W., Bird, R. *et al.*, *Ap. J.* , **867**, L19 (2018).
- 200.Data acquisition architecture and online processing system for the HAWC gamma-ray observatory, A.U. Abeysekara *et al.*, *Nuclear Instruments and Methods in Physics Research A* **888** 138 (2018).
- 200."Extreme HBL behavior of Markarian 501 during 2012," Ahnen, M. L., Ansoldi, S., Antonelli, L. A. *et al.*, *A. & Ap.* , **620**, A181 (2018).
- 201."Dark Matter Limits from Dwarf Spheroidal Galaxies with the HAWC Gamma-Ray Observatory," R. Alfaro *et al.*, *Ap. J.* **853**, 2, 154 (2018).
- 202." Direct measurement of stellar angular diameters by the VERITAS Cherenkov Telescopes," W. Benbow *et al.*, *Nature Astronomy* **3**, 6, 511 (2019).
- 203."Measurement of the extragalactic background light spectral energy distribution with VERITAS ," A. U. Abersekara *et al.*, *Ap. J.***885**, 150 (2019).



- 204."Monte Carlo studies for the optimisation of the Cherenkov Telescope Array layout," A. Acharyya *et al.*, *Ap. J.* **111**, 35 (2019).
- 205."Measurement of the Crab Nebula Spectrum Past 100 TeV with HAWC," A. U. Abeysekara *et al.*, *Ap. J.* **881**, 2, 134 (2019).
- 206."A Search for Pulsed Very High-energy Gamma-Rays from 13 Young Pulsars in Archival VERITAS Data," A. Archer *et al.*, *Ap. J.* **876**, 2, 95 (2019).
- 207."All-sky measurement of the anisotropy of cosmic rays at 10 TeV and mapping of the local interstellar magnetic field," A. U. Abeysekara *et al.*, *Ap. J.* **871**, 1, 96 (2019).
- 208."Multiple Galactic Sources with Emission above 56 TeV Detected by HAWC," A. U. Abeysekara *et al.*, *Phys. Rev. Lett.* **124**, 021102 (2020).
- 209."VERITAS Detection of LS 5039 and HESS J1825-137," A. U. Abeysekara *et al.*, *Ap. Phys.* **117**, 102403 (2020).
- 210."Probing the Properties of the Pulsar Wind in the Gamma-Ray Binary HESS J0632+057 with NuSTAR and VERITAS Observations," A. Archer *et al.*, *Ap. J.* **888**, 2, 115 (2020).
- 211."The Great Markarian 421 Flare of 2010 February: Multiwavelength Variability and Correlation Studies," A. U. Abeysekara *et al.*, *Ap. J.* **890**, 2, 97 (2020).
- 212."A Decade of Multiwavelength Observations of the TeV Blazar 1ES 1215+303: Extreme Shift of the Synchrotron Peak Frequency and Long-term Optical-Gamma-Ray Flux Increase," A. U. Abeysekara *et al.*, *Ap. J.* **891**, 2, 170 (2020).
- 213."Constraints on the Emission of Gamma-Rays from M31 with HAWC," A. Albert *et al.*, *Ap. J.* **893**, 1, 16 (2020).

- 214."Evidence for Proton Acceleration up to TeV Energies Based on VERITAS and Fermi-LAT Observations of the Cas A SNR," A. Archer *et al.*, *Ap. J.* **896**, 1, 41 (2020).
- 215."ASIIP: A Stellar Intensity Interferometry Target Planner," J. Davis, N. Matthews and D. Kieda. *J. Ast. Inst.* **6**, 037001 (2020).
- 216."Demonstration of stellar intensity interferometry with the four VERITAS telescopes", A. U. Abeysekara *et al.*, *Nature Astronomy* **4**, 1164 (2020).
- 217."VERITAS Discovery of VHE Emission from the Radio Galaxy 3C 264: A Multiwavelength Study", A. Archer *et al.*, *Ap. J.* **896**, 1, 41 (2020).
- 218."Interplanetary Magnetic Flux Rope Observed at Ground Level by HAWC", A. Albert *et al.*, *Ap. J.* **905**, 1, 73 (2020).
- 219."3HWC: The Third HAWC Catalog of Very-high-energy Gamma-Ray Sources", A. Albert *et al.*, *Ap. J.* **905**, 1, 76 (2020).
- 220."Status of the development of NUV SiPMs for INFN optical modules for the SCT medium sized telescope proposed for the CTA observatory", C. Adams *et al.*, *NIM A* **982**, 164486 (2020).
- 221."Detection of the Crab Nebula with the 9.7 m Prototype Schwarzschild-Couder Telescope", C. B. Adams *et al.*, *Ap. Phys.* **128**, 102562 (2021).
- 222."A survey of active galaxies at TeV photon energies with the HAWC gamma-ray observatory", A. Albert *et al.*, *Ap. J.* **907**, 2, 67 (2021).
- 223."HAWC observations of the acceleration of very-high energy cosmic rays in the Cygnus Cocoon", A.U. Abeysekara *et al.*, *Nature Astronomy* (2021).

## CONFERENCE PUBLICATIONS

1. “Monopole Search and Neutrino Astrophysics with Liquid Scintillation Detectors,” R.I. Steinberg, K. Brown, M.L. Cherry, S. Corbató, I. Davidson, D. Kieda, K. Lande, and C.K. Lee, in *Monopole '83*, ed. by J.L. Stone, Plenum, New York (1984).
2. “The Homestake Large Area Scintillation Detector and Cosmic Ray Telescope,” M.L. Cherry, S. Corbató, D. Kieda, K. Lande, C.K. Lee, and R.I. Steinberg, in *Solar Neutrinos and Neutrino Astronomy*, ed. by M.L. Cherry, K. Lande, and W. Fowler, AIP Conf. Proc. No. 126, Amer. Inst. of Physics, New York (1985).
3. “The Homestake Large Area Scintillation Detector and Cosmic Ray Telescope,” M.L. Cherry, S. Corbató, D. Kieda, K. Lande, C.K. Lee, and R.I. Steinberg, in *Proc. Workshop on Cosmic Ray and High Energy Gamma Ray Experiments for the Space Station Era*, ed. by W.V. Jones and J.P. Wefel, LSU Div. of Cont. Educ., Baton Rouge (1985).
4. “The Homestake Surface-Underground Scintillators – Description,” M.L. Cherry, S. Corbató, T. Daily, E.J. Fenyves, D. Kieda, K. Lande, and C.K. Lee, in *Proc. 19th Intl. Cosmic Ray Conf., La Jolla* **8**, 246 (1985).
5. “The Homestake Surface-Underground Scintillators – Initial Results,” M.L. Cherry, S. Corbató, T. Daily, E.J. Fenyves, D. Kieda, K. Lande, and C.K. Lee, in *Proc. 19th Intl. Cosmic Ray Conf., La Jolla* **9**, 523 (1985).
6. “Monopoles and the Homestake Underground Scintillation Detector,” M.L. Cherry, S. Corbató, D. Kieda, K. Lande, C.K. Lee, and R.I. Steinberg, in *Inner Space/Outer Space: The Interface of Cosmology and Particle Physics*, ed. by E.W. Kolb, M.S. Turner, K. Olive, D. Seckel, and D. Lindley, Univ. of Chicago Press, Chicago (1986).
7. “Upper Limits on the Flux of Underground Muons from Cygnus X-3,” M.L. Cherry, S. Corbató, T. Daily, D. Kieda, K. Lande, and C.K. Lee, in *Progress in Electroweak Interactions*, ed. by J. Tran Thanhvan, Editions Frontieres, Gif Sur Yvette **1**, 529 (1986).

8. “Monopoles, Muons, Neutrinos, and Cygnus X-3”, M.L. Cherry, S. Corbató, T. Daily, D. Kieda, K. Lande, and C.K. Lee, in *Genesis and Propagation of Cosmic Rays*, ed. by M.M. Shapiro and J.P. Wefel, NATO ASI Series, D. Reidel and Co., Dordrecht (1987).
9. “Mapping the U.H.E. Sky in Search of Point Sources”, G. L. Cassiday, *et al.*, *Nucl. Phys. B (Proc. Suppl.)* **14A**, 291 (1990).
10. “Measurement of Cosmic Ray Air Shower Development at Energies Above  $10^{17}$  eV”, G. L. Cassiday, *et al.*, *Nucl. Phys. B (Proc. Suppl.)* **14A**, 368 (1990).
11. “The Muon Content of Extensive Air Showers with  $E \geq 2 \times 10^{17}$  eV.,” G. L. Cassiday *et al.*, *Proc. 21st Intl. Cosmic Ray Conf., Adelaide* **9**, 118 (1990).
12. “The Cosmic Ray Primary Composition for  $10^{14} < E < 10^{16}$  eV Using Multiple Muons Observed with the Homestake Liquid Scintillation Hodoscope.,” D. B. Kieda *et al.*, *Proc. 21st Intl. Cosmic Ray Conf., Adelaide* **3**, 112 (1990).
13. “A Search for Sources of Ultra High Energy Cosmic Rays with an Underground Muon Detector.,” S. C. Corbató *et al.*, *Proc. 21st Intl. Cosmic Ray Conf., Adelaide* **9**, 398 (1990).
14. “Muon and Electron Content of Extensive Air Showers Above  $10^{14}$  eV.,” G. L. Cassiday *et al.*, *Proc. 21st Intl. Cosmic Ray Conf., Adelaide* **9**, 94 (1990).
15. “A Coarse-Grain Anisotropy Study of Cosmic Rays Above  $10^{17}$  eV.,” G. L. Cassiday *et al.*, *Proc. 21st Intl. Cosmic Ray Conf., Adelaide* **3**, 196 (1990).
16. “Hercules X-1 Results from the Utah Cerenkov Array.,” D. Ciampa *et al.*, *Proc. 21st Intl. Cosmic Ray Conf., Adelaide* **2**, 114 (1990).

17. "Cygnus X-3 Results from the Utah Cerenkov Array," G. L. Cassiday *et al.*, *Proc. 21st Intl. Cosmic Ray Conf., Adelaide* **2**, 14 (1990).
18. "A Search for  $10^{18}$  eV Point Sources, Including Cygnus X-3," G. L. Cassiday *et al.*, *Proc. 21st Intl. Cosmic Ray Conf., Adelaide* **2**, 60 (1990).
19. "The Ultra High Energy Cosmic Ray Spectrum.," G. L. Cassiday *et al.*, *Proc. 21st Intl. Cosmic Ray Conf., Adelaide* **3**, 163 (1990).
20. "Fly's Eye Measurement of the Cosmic Ray Composition Above  $10^{17}$  eV.," G. L. Cassiday *et al.*, in *Proc. 21st Intl. Cosmic Ray Conf., Adelaide* **3**, 154 (1990).
21. "The HiRes Fly's Eye Project.," G. L. Cassiday *et al.*, *Proc. 21st Intl. Cosmic Ray Conf., Adelaide* **10**, 244 (1990).
22. "Current Prospects for Measurements of Cosmic Rays with Energies Above  $10^{19}$  eV.," D. B. Kieda, *Particle Astrophysics, The NASA Cosmic Ray Program for the 1990's and Beyond*, AIP Proceedings 203, (AIP, New York 1990), 321.
23. "Gamma Ray Astronomy Above  $10^{17}$  eV with the High Resolution Fly's Eye," D. B. Kieda, *AIP Proc. 220, High Energy Gamma Ray Astronomy, Ann Arbor*, ed. J. Matthews, (AIP, New York 1991) p. 270.
24. "The High Resolution Fly's Eye Detector," R. Cooper *et al.*, *Astrophysical Aspects of the Most Energetic Cosmic Rays*, ed. M. Nagano and F. Takahara, (World Scientific, Singapore 1991) p. 345.
25. "Fly's Eye Observations," R. Cooper *et al.*, *Astrophysical Aspects of the Most Energetic Cosmic Rays*, ed. M. Nagano and F. Takahara, (World Scientific, Singapore 1991) p. 34.
26. "Description and Status High Resolution Fly's Eye Detector," R. G. Cooper *et al.*, *Proc. 22<sup>nd</sup> ICRC, Dublin, Ireland* (1991).

27. "The Ultra High Energy Cosmic Ray Spectrum," R. G. Cooper *et al.*, *Proc. 22<sup>n</sup>d ICRC, Dublin, Ireland*(1991)
28. "Search for Point Sources of U.H.E. Gamma Rays Using the Utah Čerenkov Array," S. C. Corbató *et al.*, *Proc. 22<sup>n</sup>d ICRC, Dublin, Ireland*(1991)
29. "A Search for Evidence of Point Sources in the Čerenkov Flash Data from Fly's Eye II," R. G. Cooper *et al.*, *Proc. 22<sup>n</sup>d ICRC, Dublin, Ireland*(1991)
30. "Measurement of Cosmic Ray Air Shower Development at Energies Above 0.1 EeV," R. G. Cooper *et al.*, *Proc. 22<sup>n</sup>d ICRC, Dublin, Ireland*(1991)
31. "The High Resolution Fly's Eye (HIRES): Parameters and Motivation," L. Borodovsky *et al.*, *Proc. 22<sup>n</sup>d ICRC, Dublin, Ireland* (1991)
32. "Observation of Real and Simulated Showers Using the First Two High Resolution Fly's Eye (HIRES) Mirrors," L. Borodovsky *et al.*, *Proc. 22<sup>n</sup>d ICRC, Dublin, Ireland*(1991)
33. "Limits on Deeply Penetrating Particles From the Fly's Eye Detector," R. Cooper *et al.*, *Proc. 22<sup>n</sup>d ICRC, Dublin, Ireland*(1991)
34. "Limits on the Neutrino Flux and Resulting High Resolution (HIRES) Fly's Eye Event Rate from the measured Cosmic Ray Proton Spectrum," L. Borodovsky *et al.*, *Proc. 22<sup>n</sup>d ICRC, Dublin, Ireland*(1991)
35. "Searching For the Sources of Ultra High Energy Cosmic Rays and Gamma Ray Bursts with Ground-Based Detectors", D. B. Kieda, *Vulcano Workshop 1992, Frontier Objects in Astrophysics and Particle Physics*, F. Giovannelli and G. Mannocchi, eds., (Italian Physical Society, Bologna), **40**, 479 (1993).

36. "A Planned Search for UHE Gamma Rays from AGN using the UMC Detector Facility", C. E. Covault *et al.*, Proc. Astrophys. Workshop (Blois) (1992)
37. "Searching for Diffuse Gamma-Rays at Energies above  $10^{14}$  eV with the UMC Detector Facility", C. E. Covault *et al.*, Proc. Astrophys. Workshop (Blois) (1992)
38. "Cosmic Ray Composition Around  $10^{18}$  eV ", T. K. Gaisser *et al.*, Proc. 1992 DPF Meeting (Chicago) (1992)
39. "The HIRES Fly's Eye (HiRes) Prototype Detector ", J. Boyer *et al.*, Proc. 1992 DPF Meeting (Chicago) (1992)
40. "The Fly's Eye Extremely High Energy Cosmic Ray Spectrum," D. Bird *et al.*, Proc. 23<sup>rd</sup> ICRC, Calgary, Canada(1993)
41. "Cosmic Ray Composition above 0.1 EeV," D. Bird *et al.*, Proc. 23<sup>rd</sup> ICRC, Calgary, Canada(1993)
42. "A Fly's Eye Search for Point Sources of EeV Air Showers," D. Bird *et al.*, Proc. 23<sup>rd</sup> ICRC, Calgary, Canada(1993)
43. "Anisotropy Analyses of EeV Air Showers Measured by the Fly's Eye," D. Bird *et al.*, Proc. 23<sup>rd</sup> ICRC, Calgary, Canada(1993)
44. "Anisotropy Analysis from Stereo Fly's Eye Data," D. Bird *et al.*, Proc. 23<sup>rd</sup> ICRC, Calgary, Canada(1993)
45. "The High Resolution Fly's Eye (HiRes) Project," D. Bird *et al.*, Proc. 23<sup>rd</sup> ICRC, Calgary, Canada(1993)
46. "The HiRes Fly's Eye Prototype Detector - A Status Report," D. Bird *et al.*, Proc. 23<sup>rd</sup> ICRC, Calgary, Canada(1993)

47. "Coincident observation of air showers by the Hires prototype and CASA/MIA experiments," D. Bird *et al.*, *Proc. 23<sup>rd</sup> ICRC, Calgary, Canada*(1993)
48. "Reconstruction Techniques and Tests Using the HiRes Prototype," D. Bird *et al.*, *Proc. 23<sup>rd</sup> ICRC, Calgary, Canada*(1993)
49. "Electronics and Data Acquisition System for the Hires Prototype," D. Bird *et al.*, *Proc. 23<sup>rd</sup> ICRC, Calgary, Canada*(1993)
50. "Calibration of Photomultiplier Tubes for the Hires Experiment," D. Bird *et al.*, *Proc. 23<sup>rd</sup> ICRC, Calgary, Canada*(1993)
51. "Performance of a Prototype FADC Electronics System for the HIRES Fly's Eye," D. Bird *et al.*, *Proc. 23<sup>rd</sup> ICRC, Calgary, Canada*(1993)
52. "A search for 100 TeV  $\gamma$ -Ray Emission From Cygnus X-3 and Hercules X-1 with CASA-MIA," A. Borione *et al.*, *Proc. 23<sup>rd</sup> ICRC, Calgary, Canada*(1993)
53. "A search for Ultra-High Energy Gamma Ray Emission from Active Galactic Nuclei with CASA-MIA," A. Borione *et al.*, *Proc. 23<sup>rd</sup> ICRC, Calgary, Canada*(1993)
54. "CASA-MIA Observation of Cosmic Ray Shadowing By the Sun And Moon," A. Borione *et al.*, *Proc. 23<sup>rd</sup> ICRC, Calgary, Canada*(1993)
55. "A Search for Ultrahigh Energy Emission from the Crab Nebula," A. Borione *et al.*, *Proc. 23<sup>rd</sup> ICRC, Calgary, Canada*(1993)
56. "CASA-MIA Observations of Diffuse Emission from Molecular Clouds," A. Borione *et al.*, *Proc. 23<sup>rd</sup> ICRC, Calgary, Canada*(1993)



57. "A Strategy to Obtain the Cosmic Ray Energy Spectrum from CASA-MIA Data," A. Borione *et al.*, *Proc. 23<sup>rd</sup> ICRC, Calgary, Canada*(1993)
58. "Examination of Gamma Ray Burst Source Distance Using 100 TeV Gamma Rays," A. Borione *et al.*, *Proc. 23<sup>rd</sup> ICRC, Calgary, Canada*(1993)
59. "A Stereo Imaging Čerenkov Telescope for Study of Primary Composition at the Knee of the All-Particle Spectrum," K. Boothby *et al.*, *Proc. 23<sup>rd</sup> ICRC, Calgary, Canada*(1993)
60. "The Cosmic Ray Composition Above 0.1 EeV - Highlight Talk," P. Sokolsky *et al.*, *Proc. 23<sup>rd</sup> ICRC, Calgary, Canada*(1993)
61. "A Search for Astrophysical Point Sources of 100 TeV Gamma Rays by the UMC Collaboration", T. McKay *et al.*, Proceedings of the XXVI International Conference on High Energy Physics. Vol. II : Dallas, Texas AIP Conference Proceedings **272** 1203 (1992).
62. "CASA-MIA: A "Precision" EAS Detector", A. Borione *et al.*, *The Seventh International Symposium on Very High Energy Cosmic-Ray Interactions : Ann Arbor, Michigan: AIP Conference Proceedings* **276**, 207 (1993)
63. "Results from the Fly's Eye Experiment", D. J. Bird *et al.*, *5th Conference on the Intersections of Particle and Nuclear Physics : St. Petersburg, Florida (USA) ,AIP Conf. Proc.* **338**, 839 (1995).
64. "Recent Results From the Fly's Eye Experiment," D. J. Bird *et al.*, *Proc. Erice Intl School Astrophysics* (1995)
65. "A search for Diffuse Gamma Rays with Energies above  $10^{14}$  eV from Molecular Clouds in the Galaxy", C. E. Covault *et al.*, *The Second Compton Symposium : College Park, Maryland : AIP Conference Proceedings* **304**, 499 (1995)

66. "A Search for Ultra-High Energy Gamma Rays from Active Galactic Nuclei with CASA-MIA," A. Borione *et al.*, *Proc. 24<sup>th</sup> ICRC, Rome, Italy* (1995)
67. "A Search for Ultrahigh Energy Gamma-Ray Emission from the Crab Nebula," A. Borione *et al.*, *Proc. 24<sup>th</sup> ICRC, Rome, Italy* (1995)
68. "A Search for Diffuse Sources of Ultra High Energy Gamma-Rays," A. Borione *et al.*, *Proc. 24<sup>th</sup> ICRC, Rome, Italy* (1995)
69. "Search for an Ultra High Energy Component of Gamma-Ray Bursts," A. Borione *et al.*, *Proc. 24<sup>th</sup> ICRC, Rome, Italy* (1995)
70. "Recent Upgrades to CASA-MIA," A. Borione *et al.*, *Proc. 24<sup>th</sup> ICRC, Rome, Italy* (1995)
71. "Composition Studies with the CASA-MIA Detector," A. Borione *et al.*, *Proc. 24<sup>th</sup> ICRC, Rome, Italy* (1995)
72. "Search for Ultra High Energy Gamma Rays from Supernova Remnants," A. Borione *et al.*, *Proc. 24<sup>th</sup> ICRC, Rome, Italy* (1995)
73. "The Energy Spectrum of Cosmic Rays with the CASA-MIA Air Shower Array," A. Borione *et al.*, *Proc. 24<sup>th</sup> ICRC, Rome, Italy* (1995)
74. "Multi-Component Observations of  $10^{17}$  eV EAS with the CASA-MIA and HiRes Detectors," A. Borione *et al.*, *Proc. 24<sup>th</sup> ICRC, Rome, Italy* (1995)
75. "CASA-MIA Observation of the Sun and Moon Shadow," A. Borione *et al.*, *Proc. 24<sup>th</sup> ICRC, Rome, Italy* (1995)
76. "A Search for Compact Sources of UHE Neutral Radiation," A. Borione *et al.*, *Proc. 24<sup>th</sup> ICRC, Rome, Italy* (1995)

77. "A Dual Imaging Cerenkov Experiment (DICE) for Examining Primary Composition near the Knee of the All Particle Spectrum," K. Boothby *et al.*, *Proc. 24<sup>th</sup> ICRC, Rome, Italy* (1995)
78. "Measurement of Angular Distribution of Cerenkov Photons in Extensive Air Showers using the DICE Detector," K. Boothby *et al.*, *Proc. 24<sup>th</sup> ICRC, Rome, Italy* (1995)
79. "A Search for Ultra High Energy Gamma-Ray Emission from Cygnus X-3 and Hercules X-1," A. Borione *et al.*, *Proc. 24<sup>th</sup> ICRC, Rome, Italy* (1995)
80. "A New Detection Technique for ZeV cosmic rays," D. B. Kieda, *Proc. 24<sup>th</sup> ICRC, Rome, Italy* (1995)
81. "Anisotropy of Cosmic Rays above 0.1 EeV," D. J. Bird *et al.*, *Proc. 24<sup>th</sup> ICRC, Rome, Italy* (1995)
82. "Monitoring Atmospheric Extinction for Air Fluorescence Experiments," D. J. Bird *et al.*, *Proc. 24<sup>th</sup> ICRC, Rome, Italy* (1995)
83. "Cosmic Rays Shower Maximum in the 0.01 to 1 EeV Region – Results from HiRes/FE2 Coincident Data," D. J. Bird *et al.*, *Proc. 24<sup>th</sup> ICRC, Rome, Italy* (1995)
84. "The Use of GPS Clocks for High Relative Timing Accuracy Between HiRes Sites," D. J. Bird *et al.*, *Proc. 24<sup>th</sup> ICRC, Rome, Italy* (1995)
85. "Preliminary Analysis of Monocular HiRes Prototype Data," D. J. Bird *et al.*, *Proc. 24<sup>th</sup> ICRC, Rome, Italy* (1995)
86. "The High Resolution Fly's Eye Project," D. J. Bird *et al.*, *Proc. 24<sup>th</sup> ICRC, Rome, Italy* (1995)

87. "Atmospheric Quality of the Colorado Plateau as a National Scientific Resource", D. B. Kieda, in *Meeting Summary Report of Summit on Utility Restructuring, ZEV's, and Rethinking the Environment of the West (Midway, Utah, July 1995)*, Center for Resource Management (1995).
88. "Air Cerenkov Detector for the Auger Project", D. B. Kieda, in "Giant Airshower Detector Working Group Design Report", FNAL publication (1997)
89. "Search for Ultra High Energy (UHE)  $\gamma$ -Ray Counterparts of BATSE 3B Catalog Events", M. Catanese *et al.*, in *Huntsville 1995 GRB Meeting* (AIP, New York) 1996.
90. "Atmospheric Studies using the High Resolution Fly's Eye Xenon Flasher Array", L. R. Wiencke *et al.*, SPIE conference Proceedings (Denver, 1996)
91. "Average Depth of Shower Maximum in "Knee" Region as Measured by the Dual Imaging Cerenkov Experiment", K. Boothby *et al.*, Proc. 9<sup>th</sup> Intl. Symp. on Very High Energy Cosmic Ray Interactions, Karlsruhe (1996)
92. "Air Čerenkov Detection of EeV/ZeV Energy Cosmic Rays, D. B. Kieda Proc. *International Symposium on Extremely High Energy Cosmic Rays: Astrophysics and Observatories (Tanashi, Tokyo Sept 1996)* (M. Nagano, ed., ICRR, Japan) (1997)
93. "Composition and Spectrum Studies with the CASA-MIA Detector," M. Chantell *et al.*, Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)
94. "Search for Isotropic Gamma-Radiation at Ultrahigh Energies," M. Chantell *et al.*, Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)

95. "A Search for Ultrahigh Energy Gamma-ray Emission from Redshift-selected Blazars," M. Chantell *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*
96. "Detection Capabilities of a Very Large Array of Atmospheric Cerenkov Detectors," D. Kieda, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*
97. "Measurement of Angular Distribution of ČerenkovPhotons in Extensive Air Showers using the DICE detector," K. Boothby *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*
98. "Measurements of elemental composition in the knee region from the DICE experiment," K. Boothby *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*
99. "Measuring the Cosmic Ray Composition at the Knee with BLANCA," L. Fortson *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*
100. "A Large Non-Imaging ČerenkovDetector at CASA-MIA," L. Fortson *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*
101. "Status of the High Resolution Fly's Eye Detector: Operation and Installation," T. Abu-Zayyad *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*
102. "The Hires Detector: Pointing Direction and Calibration," T. Abu-Zayyad *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*
103. "Stereo Event Reconstruction with the Hires Prototype," T. Abu-Zayyad *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*
104. "Atmospheric Monitoring at the High Resolution Fly's Eye : Atmospheric Scattering," T. Abu-Zayyad *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*

105. "Testing the High Resolution Fly's Eye Using Laserscope," T. Abu-Zayyad *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*
106. "Calibration and Stability Measurements of a FADC based Data Acquisition for the HiRes Fly's Eye Experiment," T. Abu-Zayyad *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*
107. "Multi-Component Observations of  $10^{17}$  eV EAS with a Hybrid Fluorescence and Surface Detector," T. Abu-Zayyad *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*
108. "The Capabilities of the High Resolution Fly's Eye Detector," T. Abu-Zayyad *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*
109. "Cosmic Ray Composition Measured by Hires in Coincidence with FE2," T. Abu-Zayyad *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*
110. "Physics with HiRes Stage 0.5 and Stage 2," T. Abu-Zayyad *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*
111. "Atmospheric Monitoring at the High Resolution Fly's Eye: Monitoring Data via the HiRes Laser/Lidar System," T. Abu-Zayyad *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*
112. "Atmospheric Monitoring at the High Resolution Fly's Eye: data from the HiRes2 Flasher Array," T. Abu-Zayyad *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*
113. "Radio Controlled Light Sources for Atmospheric Monitoring at HiRes," T. Abu-Zayyad *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*
114. "A Monte Carlo Study of Reconstruction of Monocular Events having Limited Track Lengths for the High Resolution Fly's Eye," T. Abu-Zayyad *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*

115. "Trigger Sensitivity of the FADC Instrumented Hires Fly's Eye," T. Abu-Zayyad *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*
116. "VERITAS: Very Energetic Radiation Imaging Telescope Array System," T. C. Weekes *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*
117. "Measurements of Energy Dependence of the Depth of Shower Maximum in the Knee Region from the DICE Experiment," K. Boothby *et al.*, *Proc. 25<sup>th</sup> ICRC, Durban, South Africa (1997)*
118. "Steerable Laser System for UV Atmospheric Monitoring at the High-Resolution Fly's Eye", L. Wiencke *et al.*, *Proc. SPIE Ultraviolet Atmospheric and Space Remote Sensing: Methods and Instrumentation II*, George R. Carruthers and Kenneth F. Dymond Eds. **3818**, 56 (1999)
119. "Detection of Multi-Joule Cosmic Rays Using Silicon/Solar Panel Detectors," D. B. Kieda, in *Topics in Cosmic-Ray Astrophysics: M. Duvernois, Editor* Horizons in World Physics, Nova Science Publishers **230** (1999).
120. "Quasicrystal Thin Films for Biomedical Applications," O. Symko, W. Park, and D. Kieda. *Proc. 11<sup>th</sup> Intl. Conf. on Surface Modification Technologies, Paris (1997)*.
121. "VERITAS: Very Energetic Radiation Imaging Telescope Array System," T.C. Weekes *et al.*, *Towards a Major Atmospheric Cerenkov Detector V, Berg-en-Dal*, Space Research Unit, Potchefstroom University for CHE, O.C. de Jager, editor (1997).
122. "Neutrino Physics with the High Resolution Fly's Eye", W. Y. Lee *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah 2*, 483 (1999)

123. “Composition Results at the Knee from CASA-BLANCA”, L. F. Fortson *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **3**, 125 (1999)
124. “The Cosmic Ray Composition from  $10^{14}$  to  $10^{16}$  eV”, M. A. K Glasmacher *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **3**, 129 (1999)
125. “The Composition near the ‘Knee’ from Multiparameter Measurements of Air Showers”, S. P. Swordy and D. B. Kieda, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **3**, 144(1999)
126. “The Energy Spectrum in the Knee Region from DICE”, D. B. Kieda and S. P. Swordy, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **3**, 191 (1999)
127. “The Cosmic ray Energy Spectrum from  $10^{14}$  to  $10^{16}$  eV”, M. A. K. Glasmacher *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **3**, 199 (1999)
128. “Study of Broad Scale Anisotropy of Cosmic Ray Arrival Directions from  $2 \times 10^{17}$  eV to  $10^{19}$  eV from Fly’s Eye Data”, D. J. Bird *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **3**, 251 (1999)
129. “HiRes/MIA Measurements of Extensive Air Shower Development between  $10^{17}$  and  $10^{18}$  eV: Detector Description and Performance”, T. Abu-Zayyad *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **3**, 260 (1999)
130. “The Cosmic Ray Energy Spectrum as Measured in Monocular Mode by the High Resolution Fly’s Eye Experiment”, T. Abu-Zayyad *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **3**, 264 (1999)



131. "A Study in Anisotropy in Arrival Directions in the Highest Energy Cosmic Rays from High Resolution Fly's Eye Results", T. Abu-Zayyad *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **3**, 296 (1999)
132. "High Speed Electronics for Atmospheric Cerenkov Detectors", J. H. Buckley *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **5**, 267 (1999)
133. "The Very Energetic Radiation Imaging Telescope Array System (VERITAS)", S. M. Bradbury *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **5**, 280 (1999)
134. "Status of the High Resolution Fly's Eye Detector: Operation and Installation", T. Abu-Zayyad *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **5**, 349 (1999)
135. "The Telescope Array Project", T. Aoki *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **5**, 352 (1999)
136. "Atmospheric Monitoring via Measurements of Scattered Light at the High Resolution Fly's Eye", R. Gray *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **5**, 353 (1999)
137. "Time variation of the Vertical Profile of the Atmosphere for Air Fluorescence Measurements", G. Martin *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **5**, 361 (1999)
138. "HiRes/MIA Measurements of EAS Development Between  $10^{17}$  and  $10^{18}$  eV", T. Abu-Zayyad *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **5**, 365 (1999)

139. "First Stereo Results from the High Resolution Fly's Eye Air Fluorescence Detector", T. Abu-Zayyad *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **5**, 369 (1999)
140. "A Steerable Laser System for Atmospheric Monitoring at the High Resolution Fly's Eye", J. R. Mumford *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **5**, 377 (1999)
141. "Stereo Measurements of Cosmic Ray Events at the High Resolution Fly's Eye Prototype", L. R. Wiencke *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **5**, 381 (1999)
142. "Research and Development Facility at Black Rock Hills Utah for a next Generation Air Fluorescence Detector", L. R. Wiencke *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **5**, 389 (1999)
143. "Measurement of the Aerosol Differential Scattering Cross Section Using Hires Fluorescence Detectors", T. Tessier *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **5**, 408 (1999)
144. "Atmospheric Monitoring for Transmission Corrections to Air Fluorescence Signals", J. A. J Matthews *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **5**, 412 (1999)
145. "Cloud Monitoring for Large Cosmic Ray Sites", R.W. Clay *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **5**, 421 (1999)
146. "Calibrating the High Resolution Fly's Eye Detector", B. F. Jones *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **5**, 429 (1999)

147. "The HiRes FADC Data Acquisition System", J. Boyer *et al.*, *Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference, Salt Lake City, Utah* **5**, 441 (1999)
148. "VERITAS: the Very Energetic Radiation Imaging Telescope Array System ", J. Buckley *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
149. "The Whipple Observatory Granite III Upgrade Program", J. P. Finley *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
150. "The Energy Spectrum of Markarian 421 During Strong Flaring Activity in 2000/2001 ", F. Krennrich *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
151. "Observations of Galactic Pulsars and Shell-Type SNRs with the Whipple 10 m Atmospheric Cherenkov Telescope", T.A. Hall *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
152. "Reanalysis of Energy Spectrum and Composition in the DICE Experiment", D. Kieda *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
153. "Exotic PeV Particle Detection Using Direct Cerenkov Light", D. Kieda, S. P. Swordy and S. Wakely, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
154. "Upper limits on TeV gamma-rays from Neutralino Annihilation in the Galactic Center ", K. Kosack *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
155. "The Flaring Activity of Markarian 421 During April 2000 ", D. J. Fegan *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)

156. “Observations of M87 and Mkn40 at Energies  $E > 300$  GeV ”, S. LeBohec *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
157. “Large Zenith Angle Observations With the High Resolution GRANITE III camera”, D. A. Carter-Lewis *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
158. “What Can We Learn about the Extra-Galactic Infrared Background from Markarian 421?”, V. Vassiliev *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
159. “TeV Gamma-Ray Observations from the blazar, 1ES2344 with the Whipple Cherenkov Imaging Telescope”, H. Badran *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
160. “TeV Gamma-Ray Observations of 1H1426 with the Whipple Cherenkov Imaging Telescope”, D. Horan *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
161. “Multiwavelength Observations of Markarian 421”, M. Jordan *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
162. “ Atmospheric Attenuation and Sky Brightness at 1300 and 2300 m asl”, H. Badran *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
163. “Characteristics of upward-going EeV Tau Neutrino Airshowers”, D. Kieda, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)

164. “A New High-Resolution Method for Measuring Cosmic Ray Composition beyond 10 TeV”, S. P. Swordy, D. Kieda and S. Wakely, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
165. “Observations of Extreme Flaring Activity from Markarian 421 with the Whipple 10m Telescope”, J. Holder *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
166. “Search for TeV Gamma Ray Emission from 4C39.12 with the Whipple 10 M Cherenkov Telescope”, I. de la Calle *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
167. “VHE Observations of Unidentified EGRET Sources”, T.C. Weekes *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
168. “VERITAS: Very Energetic Radiation Imaging Telescope Array System”, D. Kieda *et al.*, *Proc. XXXVI<sup>th</sup> Rencontres de Moriond, Les Arcs, France* (2001)
169. “Recent Results from the Whipple Telescope”, D. Kieda *et al.*, *Proc. XXXVI<sup>th</sup> Rencontres de Moriond, Les Arcs, France* (2001)
170. “Telescope Array Atmospheric Monitoring System at Akeno Observatory”, T. Yamamoto *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
171. “A Simulation for Laser Scattering Experiment and Cloud Monitoring for Telescope Array Atmospheric Monitoring”, M. Chikawa *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
172. “Front-end Electronics of the Telescope Array Detector”, M. Sasaki *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)

173. "Study of the Longitudinal Development of Air Showers with CORSIKA", C. Song *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
174. "Determining the Alignment of HiRes Optics Using a CCD camera", D. R. Bergman *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
175. "Absolute GPS Time Event Generation and Capture for Remote Locations", J. D. Smith *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
176. "Comparisons of CORSIKA-generated Showers with HiRes Data", A. Zech *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
177. "Atmospheric Monitoring in Utah Using the Back Scatter Lidar Method", M. Sasano *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
178. "Anisotropy Studies of Ultra-high Energy Cosmic Rays as Observed by the High Resolution Fly's Eye (HiRes)", J. Bellido *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
179. "Atmospheric Monitoring at HiRes-Hardware Systems 1", M. Roberts *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
180. "Atmospheric Monitoring at HiRes-Hardware Systems 2", L. Wiencke *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
181. "A Monocular Spectrum Analysis Using FADC Timing at HiRes", D. R. Bergman *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)

182. "Atmospheric Analysis Techniques at HiRes", M. Roberts *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
183. "Calibration and Stability of the High Resolution Fly's Eye Detector", B. F. Jones *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
184. "Cloud Detection at the High Resolution Fly's Eye", R. W. Clay *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
185. "Monte Carlo Simulation of the HiRes Experiment", Z. Cao *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
186. "A Fiber-Optic Based Calibration System for the HiRes Experiment", G. Archibold *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
187. "Preliminary Stereo Results from the High Resolution Fly's Eye Cosmic Ray Observatory", K. Reil *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
188. "Description of the High Resolution Fly's Eye", J. Matthews *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
189. "Atmospheric Monitoring at HiRes - The Atmosphere at Dugway", L. Wiencke *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
190. "Measuring Air Shower Speeds with the HiRes Fluorescence Detectors", P. Morrison *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)

191. “Systematic Issues in the HiRes Spectral Measurements”, The HiRes Collaboration, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
192. “Measurement of the Ultrahigh Energy Cosmic Ray Spectrum Using Monocular Data from the High Resolution Fly’s Eye Experiment”, C. Jui *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
193. “Measurement of the Cosmic Ray Energy Spectrum and Composition from  $10^{17}$  to  $10^{19}$  eV Using the HiRes Prototype Detector”, The Hires Collaboration, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
194. “ A Measurement of the Average Longitudinal Development Profile of Cosmic Ray Air Showers Between  $10^{17}$  eV and  $10^{18}$  eV”, Z. Cao *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
195. “The Telescope Array Project”, T. Aoki *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
196. “Measurement of the Cosmic Ray Energy Spectrum from  $10^{17}$  to  $10^{18.3}$  eV Using a Hybrid Technique”, Z. Cao *et al.*, *Proceedings of the 27<sup>th</sup> International Cosmic Ray Conference, Hamburg, Germany* (2001)
197. “Science Capabilities of the VERITAS array of 10m Imaging Atmospheric Cerenkov gamma-ray detectors ”, D. Kieda *et al.*, *Proceedings of SPIE* **4834** (2002)
198. “High Resolution Charge Measurements of UH Cosmic Ray Nuclei Using a Direct Imaging Cherenkov Ground-Based Observatory ”, D. Kieda *et al.*, *Proceedings of SPIE* **4858** (2002)



199. “ANITA Monte Carlo Simulations ”, S.T. Lowe *et al.*, *Proceedings of SPIE* **4858** (2002)
200. “Overview of the ANITA project”, K.M. Liewer *et al.*, *Proceedings of SPIE* **4858** (2002)
201. “Antarctic Impulsive Transient Antenna (ANITA) Instrumentation”, C.J. Naudet *et al.*, *Proceedings of SPIE* **4858** (2002)
202. “Recent Results from the VERITAS Collaboration”, F. Krennrich *et al.*, *Proceedings of The Universe Viewed in Gamma Rays* (ICRR, Tokyo 2003)
203. “The VERITAS project”, R. A. Ong *et al.*, *Proceedings of The Universe Viewed in Gamma Rays* (ICRR, Tokyo 2003)
204. “TeV Observations of the Galactic Center”, K. Kosack *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
205. “Whipple Telescope Observations of Potential TeV Gamma-Ray Sources Found by the Tibet Air Shower Array”, G. Walker *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
206. “Search for TeV Annihilation Radiation from Supersymmetric Dark Matter in Nearby Galaxies”, V. V. Vassiliev *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
207. “Intensive TeV Gamma-Ray and X-Ray Observations of the Blazar Mrk 421 in December 2002 and January 2003”, P. Rebillot *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)

208. “Observation of M87 with the Whipple 10m telescope”, S. LeBohec *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
209. “Search for a WIMP Annihilation Signature in the Core of the Globular Cluster M15”, S. LeBohec *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
210. “A Search for Pulsed TeV Gamma-Ray Emission from the Crab Pulsar using the Whipple High Resolution GRANITE III Camera”, J. Kildea *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
211. “Observations of H1426+428 from 1999 to 2002 with The Whipple Observatory 10 m Telescope”, D. Horan *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
212. “Whipple Observations of 1ES1959+650: an Update”, J. Holder *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
213. “Very High Energy Observations of PSR B1823-13”, T. A. Hall *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
214. “Search for TeV Emission at the Location of Milagro Sky Survey Hot Spot Using the Whipple Gamma-Ray Telescope”, A. Falcone *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
215. “Search for Very High Energy Gamma Rays from an X-ray Selected Blazar Sample”, I. de la Calle Perez *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
216. “Hourly Spectral Variability of Mrk 421”, F. Krennrich *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)

217. “Signal Cable Selection for the VERITAS Observatory”, D. Allen *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
218. “Characteristics of Ultra-Heavy Cosmic Ray Nuclei in the PeV-EeV Energy Region”, D. Kieda, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
219. “Calibration Systems for the VERITAS Observatory”, D. Allen *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
220. “Measurement of the Flux of UHE Cosmic rays by the HiRes Detectors Observing in Monocular Mode”, D. Bergman *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
221. “Stereo Spectrum of UHECR Showers at the HiRes Detector”, R. W. Springer *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
222. “Measurement of the Flux of UHE Cosmic Rays by the Hires Detectors Observing in both Monocular and Stereoscopic Modes”, G. Thompson *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
223. “Anisotropy Studies of Ultra-High Energy Cosmic Rays Using Monocular Data Collected by the High Resolution Fly’s Eye (HiRes)”, J. Bellido *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
224. “Full Sky Anisotropy Study Using the HiRes Stereo Data”, J. Bellido *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)

235. “Small-Scale Anisotropy Studies of Highest Energy Cosmic Rays”, C. Finley *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
236. “Using Fractal Dimensionality in the Search for Source Models of UHECRs ”, B. Stokes *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
237. “Testing the HiRes Detector Simulation Against UHECR Data”, A. Zech *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
238. “UHECR Composition Studies with HiRes Stereo Data”, G. Archbold *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
239. “Checking the Pointing Accuracy of Air Fluorescence Detectors with Star Light”, S. Westerhoff *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
240. “The Absolute Energy Scale of the HiRes Detectors”, J. N. Matthews *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
241. “Absolute Energy Scale of the HiRes Detector”, M. Seman *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
242. “Atmospherics at HiRes”, K. Martens *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
243. “A Measurement of the p-Air inelastic Cross Section at the energies above  $10^{18}$ ”, K. Belov *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
244. “HiRes-3 Prototype”, R. A. Riehle *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)

245. “Probing the HiRes Aperture Near  $10^{20}$  eV with a Distant Laser”, L. R. Weincke *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
246. “Shoot the Shower: Probing Atmospheric Clarity of the Shower/Detector Plane at HiRes”, L. R. Weincke *et al.*, *Proceedings of The 28th International Cosmic Ray Conference* (Tsukuba, Japan 2003)
247. “The VERITAS Prototype and the Upcoming VERITAS Array ”, H. Badran *et al.*, *HIGH ENERGY GAMMA-RAY ASTRONOMY: 2nd International Symposium on High Energy Gamma-Ray Astronomy. AIP Conference Proceedings* **745** 633 (2005).
248. “Very High Energy Observations of Gamma Ray Bursts with the Whipple/VERITAS Telescopes ”, D. Horan *et al.*, *HIGH ENERGY GAMMA-RAY ASTRONOMY: 2nd International Symposium on High Energy Gamma-Ray Astronomy. AIP Conference Proceedings* **745** 591 (2005).
249. “The Very High Energy Gamma-Ray Spectra of IES 1959+650 and Mrk 421 as Measured with the Whipple 10 m Telescope”, M. K. Daniel *et al.*, *HIGH ENERGY GAMMA-RAY ASTRONOMY: 2nd International Symposium on High Energy Gamma-Ray Astronomy. AIP Conference Proceedings* **745** 462 (2005).
250. “Recent Observations of IC443 with the Whipple 10m Telescope ”, J. Holder *et al.*, *HIGH ENERGY GAMMA-RAY ASTRONOMY: 2nd International Symposium on High Energy Gamma-Ray Astronomy. AIP Conference Proceedings* **745** 275 (2005).
251. “Evidence for New Unidentified TeV  $\gamma$ -ray Sources from Recent TeV Sky Surveys ”, D. Kieda *et al.*, *HIGH ENERGY GAMMA-RAY ASTRONOMY: 2nd International Symposium on High Energy Gamma-Ray Astronomy. AIP Conference Proceedings* **745** 691 (2005).

252. “Search for TeV Radiation from Selected Local Group Galaxies”, J. Hall *et al.*, *Proceedings of the 29th International Cosmic Ray Conference* (Pune, India 2005)
253. “Observations of AGN with the First VERITAS Telescope”, P. Cogan *et al.*, *Proceedings of the 29th International Cosmic Ray Conference* (Pune, India 2005)
254. “Spectral Monitoring of Mrk 421 during 2004”, J. Grube *et al.*, *Proceedings of the 29th International Cosmic Ray Conference* (Pune, India 2005)
255. “TeV gamma-ray Observations of the Perseus Galaxy Cluster”, J. S. Perkins *et al.*, *Proceedings of the 29th International Cosmic Ray Conference* (Pune, India 2005)
256. “Point Source And Diffuse Source Sensitivities In GeV/TeV Observatories”, D. B. Kieda, *7th Workshop on Towards a Network of Atmospheric Cherenkov Detectors 2005, Palaiseau, France, 27-29 Apr 2005* 437 (2006).
256. “VERITAS: History and Status”, T. C. Weekes *et al.*, *7th Workshop on Towards a Network of Atmospheric Cherenkov Detectors 2005, Palaiseau, France, 27-29 Apr 2005* 437 (2006).
257. “Deployment of the VERITAS Observatory”, S. Lebohec *et al.*, *J. Phys:CS* **47**, 232 (2006).
258. “Status Report from VERITAS”, F. Krennrich *et al.*, *J. Phys:CS* **60**, 34 (2007).
259. “Status of the VERITAS Gamma-Ray Observatory”, D. B. Kieda, *AIP Conference Proceedings, The First GLAST Symposium* **921**, 80 (2007).

260. “The TrICE Prototype MAMPT Imaging Camera”, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
261. “Studies of Direct Cerenkov Emission with VERITAS”, S. wissel *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
262. “TeV and X-ray monitoring of LS I +61 303 with VERITAS, SWIFT, and RXTE”, A. Smith *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
263. “Observations of Pulsar Wind Nebulae with VERITAS”, A. Konopelko *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
264. “100 TeV Observations of the Cygnus Region by CASA-MIA”, R.A. Ong *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
265. “Observation of the Supernova Remnant IC 443 with VERITAS”, B. Humensky *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
266. “ VERITAS Observations of potential MGRO VHE Gamma-Ray Sources”, D. Kieda *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
267. “Observations of the Crab with VERITAS”, O. celik *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
268. “Observations of the Crab Nebula with the Whipple 10 m Telescope”, J. Grube *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).

269. “The Whipple Strip Sky Survey”, M. Kertzman *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
270. “Observation of the binary system LSI +61 303 in Very High Energy Gamma-Rays with VERITAS”, G. Maier *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
271. “Observations of the high-frequency-peaked BL Lac object 1ES 1218 +30.4 with VERITAS”, P. Fortin *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
272. “Observations of M87 with VERITAS”, P. Colin *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
273. “Blazar Observations with the VERITAS Experiment”, H. Krawczynski *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
274. “Observations of Mrk 421 and Mrk 501 in Spring 2006 with VERITAS”, S. Fegan *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
275. “Observations of 1ES 0647+250 and 1ES 0806+524 with VERITAS”, P. Cogan *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
276. “Observations of Gamma-ray Bursts with VERITAS and Whipple”, D. Horan *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
277. “VERITAS: Status and Latest Results”, G. Maier *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).



278. “The VERITAS Standard Data Analysis”, M. Daniel *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
279. “Application of radisonde data to VERITAS simulations”, M. Daniel *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
280. “Analysis of Flash ADC Data With VERITAS”, P. Cogan *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
281. “VEGAS, the VERITAS Gamma-ray Analysis Suite”, P. Cogan *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
282. “Monte Carlo studies of the VERITAS array of Cherenkov telescopes”, G. Maier *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
283. “Calibration of the VERITAS Gamma-ray Telescopes”, D. Hanna *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
284. “Focal Plane Instrumentation of VERITAS array”, T. Nagai *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
285. “ Laser Atmospheric Studies with VERITAS”, M. Hui *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
286. “A Probability Density Method for VHE Gamma-Ray Source Analysis”, A. Syson *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).

287. “The VERITAS Trigger System”, A. Weinstein *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
288. “VERITAS Data Acquisition”, E. Hays *et al.*, *Proceedings of the 30th International Cosmic Ray Conference* (Puebla, Mexico 2007).
289. “Deployment of a Pair of 3 M telescopes in Utah”, G. Finnegan *et al.*, *Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy. AIP Conference Proceedings* **1085**, 746 (2008)
290. “Site Characteristics of Southern Utah Sites for Astronomical Observatories”, P. Gondolo *et al.*, *Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy. AIP Conference Proceedings* **1085**, 842 (2008)
291. “Status of the VERITAS Observatory”, J. Holder *et al.*, *Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy. AIP Conference Proceedings* **1085**, 657 (2008)
292. “ Search for TeV Emission from Geminga by the VERITAS Observatory”, D. Kieda *et al.*, *Proceedings of the 4th International Meeting on High Energy Gamma-Ray Astronomy. AIP Conference Proceedings* **1085**, 269 (2008)
293. “Toward a revival of stellar intensity interferometry ”, S. Lebohec *et al.*, *Optical and Infrared Interferometry. Edited by Schuller, Markus; Danchi, William C.; Delplancke, Françoise. Proceedings of the SPIE* **7013** (2008)
294. “The Origin of the Galactic Cosmic Radiation”, G. Sinnis *et al.*, *Astro2010: The Astronomy and Astrophysics Decadal Survey, Science White Papers, no. 275* (2009)

295. "Stellar intensity interferometry: Experimental steps toward long-baseline observations," S. LeBohec *et al.*, *Proc. SPIE Int. Soc. Opt. Eng.* **7734**, 773448 (2010).
296. "Stellar Intensity Interferometry: Imaging capabilities of air Cherenkov telescope arrays," P. D. Nunez *et al.*, *Proc. SPIE Int. Soc. Opt. Eng.* **7734**, 77341C (2010).
297. "VERITAS: Status and Highlights," J. Holder *et al.*, *Proc. 32<sup>nd</sup> International Cosmic Ray Conference, Beijing, China*, **astro-ph/1111.1225** (2011).
298. "Multiwavelength Observations of the Previously Unidentified Blazar RX J0648.7+1516," E. Aliu *et al.*, *Proc. 32<sup>nd</sup> International Cosmic Ray Conference, Beijing, China*, **astro-ph/1110.5949** (2011).
299. "Orbit Mode observations of Crab and Mrk 421," D. B. Kieda, *et al.*, *Proc. 32<sup>nd</sup> International Cosmic Ray Conference, Beijing, China*, **astro-ph/1110.5974** (2011).
300. "Status of the VERITAS Upgrade," D. B. Kieda, *et al.*, *Proc. 32<sup>nd</sup> International Cosmic Ray Conference, Beijing, China*, **astro-ph/1110.4360** (2011).
301. "The BigBOSS Experiment," D. Schlegel *et al.*, *FERMILAB-FN-0932-AE-CD*. **astro-ph/1106.1706v1** (2011).
302. "The BigBOSS Experiment," D. Schlegel *et al.*, **astro-ph/1106.1706** (2011).
303. "Imaging Hot Stars at Very High Angular Resolution with Intensity Interferometry," P.D. Nunez *et al.*, *ASPC* **464**, 43 (2012).
304. "CF2 White Paper: Status and Prospects of The VERITAS Indirect Dark Matter Detection Program," A.W. Smith *et al.*, eprint arXiv:1304.6367 (2013).

305. "Compilation of CTA contributions to the proceedings of the 33rd International Cosmic Ray Conference (ICRC2013)," O. Abril *et al.*, eprint arXiv:1307.2232 (2013).
306. "VERITAS contributions to the 33rd International Cosmic Ray Conference," E. Aliu *et al.*, eprint arXiv:1308.6173 (2013).
307. "The HAWC Gamma-Ray Observatory: Design, Calibration, and Operation," A. U. Abeysekara *et al.*, eprint arXiv:1310.0074 (2013).
308. "The HAWC Gamma-Ray Observatory: Observations of Cosmic Rays," A. U. Abeysekara *et al.*, eprint arXiv:1310.0072 (2013).
309. "The HAWC Gamma-Ray Observatory: Dark Matter, Cosmology, and Fundamental Physics," A. U. Abeysekara *et al.*, arXiv:1310.0073 (2013).
310. "The HAWC Gamma-Ray Observatory: Sensitivity to Steady and Transient Sources of Gamma Rays," A. U. Abeysekara *et al.*, eprint arXiv:1310.0071 (2013).
311. "An Updated Analysis of the DICE Energy Spectrum and Depth of Shower Maximum," C. G. Larsen and D. Kieda, *Proc. 33rd ICRC, Rio De Janeiro* (2013).
312. "VizieR Online Data Catalog: Mrk421 in March 2010," J. Aleksic *et al.*, VizieR On-line Data Catalog: J/A+A/578/A22 (2015).
313. "HAWC Contributions to the 34th International Cosmic Ray Conference (ICRC2015)," A. U. Abeysekara *et al.*, eprint arXiv:1508.03327 (2015).
314. "CTA Contributions to the 34th International Cosmic Ray Conference (ICRC2015)," A. Achiche *et al.*, eprint arXiv:1508.05894 (2015).

315. "Search for TeV Gamma-Ray Emission from Point-like Sources in the Inner Galactic Plane with a Partial Configuration of the HAWC Observatory," A. U. Abeysekara *et al.*, eprint arXiv:1509.05401 (2015).
316. "A Medium Sized Schwarzschild-Couder Cherenkov Telescope Mechanical Design Proposed for the Cherenkov Telescope Array," K. Byrum *et al.*, eprint arXiv:1509.03074 (2015).
317. "Construction of a Schwarzschild-Couder telescope as a candidate for the Cherenkov Telescope Array: status of the optical system," K. Byrum *et al.*, eprint arXiv:1509.01143 (2015).
318. "Science Highlights from VERITAS," D. Stasak *et al.*, eprint arXiv:1510.01269 (2015).
318. VERITAS Collaboration Contributions to the 34th International Cosmic Ray Conference, The VERITAS Collaboration, in *34th International Cosmic Ray Conference* POS(ICRC2015) vol. 34. (2015)
319. Toward the construction of a medium size prototype Schwarzschild-Couder telescope for CTA, J. Rousselle, *et al.*, in *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, vol. 9603. doi:10.1117/12.2188381 (2015)
320. CTA Contributions to the 34th International Cosmic Ray Conference (ICRC2015), The CTA Collaboration, in *34th International Cosmic Ray Conference* POS(ICRC2015) vol. 34 (2015).
321. HAWC Contributions to the 34th International Cosmic Ray Conference (ICRC2015), The HAWC Collaboration, in *34th International Cosmic Ray Conference* POS (ICRC2015), vol. 34 (2015).

321. A Medium Sized Schwarzschild-Couder Cherenkov Telescope Design Proposed for the Cherenkov Telescope Array, W. Benbow *et al.*, in *34th International Cosmic Ray Conference* POS(ICRC2015), vol. 34 (2015).
323. Construction of a Schwarzschild-Couder telescope as a candidate for the Cherenkov Telescope Array: Implementation of the optics, J. Rousselle *et al.*, in *34th International Cosmic Ray Conference* POS(ICRC2015) vol. 34 (2015).
324. VERITAS Discovery of Very High-Energy Gamma-Ray Emission from RGB J2243+203, D. Kieda, D. and VERITAS Collaboration, in *34th International Cosmic Ray Conference* POS(ICRC2015) vol. 34 (2015).
325. "Contributions of the Cherenkov Telescope Array (CTA) to the 6th International Symposium on High-Energy Gamma-Ray Astronomy (Gamma 2016)," A. Abchiche *et al.*, eprint arXiv:1610.05151 (2016).
326. "Recent Advances in Ground-Based Gamma-Ray Particle Astrophysics," D. Kieda *et al.*, Proc. XLVI International Symposium on Multiparticle Dynamics, EPJ Web of Conferences, (2016).
327. "Stellar Intensity Interferometric Capabilities of IACT Arrays", D. Kieda and N. Matthews, *Proceedings of Science* POS(ICRC2017), 828 (2017).
328. "Detection of Near-Horizontal Muons with the HAWC Observatory", A.S. Barber *et al.*, *Proceedings of Science* POS(ICRC2017) 512 arXiv:1710.04290 (2017).
329. "Prototype 9.7 m Schwarzschild-Couder telescope for the Cherenkov Telescope Array: status of the optical system, D. Nieto *et al.*, *Proceedings of Science* POS(ICRC2017), 815 (2017).

330. VERITAS contributions to the 35th International Cosmic Ray Conference, A. U. Abeysekara *et al.*, in *35th International Cosmic Ray Conference* POS(ICRC2017) vol. 301 (2017).
331. Prototype 9.7 m Schwarzschild-Couder telescope for the Cherenkov Telescope Array: status of the optical system, D. Nieto *et al.*, in *35th International Cosmic Ray Conference* POS(ICRC2017) vol. 301 (2017).
332. Cherenkov Telescope Array Contributions to the 35th International Cosmic Ray Conference (ICRC2017), F. Acero *et al.*, in *35th International Cosmic Ray Conference* POS(ICRC2017) vol. 301 (2017).
333. ‘HAWC Contributions to the 35th International Cosmic Ray Conference (ICRC2017), A. U. Abeysekara *et al.*, in *35th International Cosmic Ray Conference* POS(ICRC2017) vol. 301 (2017).
334. Stellar Intensity Interferometric Capabilities of IACT Arrays, D. Kieda and N. Matthews, in *35th International Cosmic Ray Conference* POS(ICRC2017) vol. 301 (2017).
335. Prototype 9.7m Schwarzschild-Couder telescope for the Cherenkov Telescope Array: status of the optical system, ‘D. Nieto Castao *et al.*, *35th International Cosmic Ray Conference* POS(ICRC2017) vol. 301 (2017).
336. Detection of Near Horizontal Muons with the HAWC Observatory, A. Barber, D. Kieda, R. W. Springer, and HAWC Collaboration in *35th International Cosmic Ray Conference* POS(ICRC2017) vol. 301 (2017).
337. ‘Simulation of Near Horizontal Muons and Muon Bundles for the HAWC Observatory with CORSIKA, A. Barber, D. Kieda, R. W. Springer, and HAWC Collaboration in *35th International Cosmic Ray Conference* POS(ICRC2017) vol. 301 (2017).

338. “The Consortium for Dark Sky Studies: A Transdisciplinary Institute for Understanding the Loss of the Night’,’ J. Barentine, D. Kieda, S. Goldsmith, B. Foott and J. Muir, *American Astronomical Society, AAS Meeting* **231**, id.142.01 (2018).
339. Implementation of an intensity interferometry system on the Star-Base observatory, N. Matthews, O. Clarke, S. Snow, S. LeBohec, and D. Kieda, in *Proceedings of the SPIE*, **10701**, id. 107010W (2018).
340. VizieR Online Data Catalog: Five years of blazar observations with VERITAS,” S. Archambault *et al.*, *VizieR Online Data Catalog*, 2018yCat..51510142A (2018).
341. Characterization and assembly of near-ultraviolet SiPMs for the Schwarzschild-Couder medium-size telescope proposed for the CTA Observatory, C. Adams *et al.*, in *Proceedings of the SPIE*, Volume 11114, id. 111140D 9 pp. (2019).
342. Camera design and performance of the prototype Schwarzschild-Couder Telescope for the Cherenkov Telescope Array, C. Adams *et al.*, in *36th International Cosmic Ray Conference POS(ICRC2019)* vol. 36 (2019).
343. Prototype Schwarzschild-Couder Telescope for the Cherenkov Telescope Array: Commissioning Status of the Optical System, C. Adams *et al.*, in *36th International Cosmic Ray Conference POS(ICRC2019)* vol. 36 (2019).
344. Development and operations of INFN optical modules for the SCT Telescope camera proposed for the Cherenkov Telescope Array Observatory, C. Adams *et al.*, in *36th International Cosmic Ray Conference POS(ICRC2019)* vol. 36 (2019).
345. VERITAS contributions to the 36th International Cosmic Ray Conference, A. U. Abeysekara *et al.*, in *36th International Cosmic Ray Conference POS(ICRC2019)* vol. 36 (2019).



346. HAWC Contributions to the 36th International Cosmic Ray Conference (ICRC2019), A. U. Abeysekara *et al.*, in *36th International Cosmic Ray Conference* POS(ICRC2019) vol. 36 (2019).
346. Augmentation of VERITAS Imaging Atmospheric Cherenkov Telescopes for Stellar Intensity Interferometry, D. Kieda, S. LeBohec, R. Cardon and the VERITAS Collaboration in *36th International Cosmic Ray Conference* POS(ICRC2019) vol. 36 (2019).
348. Characterizing the VHE Emission of LS I +61 303 using VERITAS Observations, D. Kieda and the VERITAS Collaboration in *36th International Cosmic Ray Conference* POS(ICRC2019) vol. 36 (2019).
349. Prototype Schwarzschild-Couder Telescope for the Cherenkov Telescope Array: Commissioning Status of the Optical System, Q. Feng *et al.*, in *36th International Cosmic Ray Conference* POS(ICRC2019) vol. 36 (2019).
350. A Fiber Optic Based High Voltage System for Stellar Intensity Interferometry Observations, R. Cardon, N. Matthews, A. U. Abeysekara, D. Kieda in *36th International Cosmic Ray Conference* POS(ICRC2019) vol. 36 (2019).
351. Measurement of the Integral Intensity of Near Horizontal Muons with HAWC, A. Barber, D. Kieda, and R. W. Springer in *36th International Cosmic Ray Conference* POS(ICRC2019) vol. 36 (2019).
352. First astrophysical results with the VERITAS Stellar Intensity Interferometer, N. Matthews, A. Flinders, R. Cardon, S. Lebohec, D. Kieda and VERITAS Collaboration, in *36th International Cosmic Ray Conference* POS(ICRC2019) vol. 36 (2019).
353. Verification of the Optical System of the 9.7-m Prototype Schwarzschild-Couder Telescope, C. Adams *et al.*, *Proc. SPIE Optical Engineering + Application*, doi:10.1117/12.2568134 (2020).

## BOOKS AND CDROMS EDITED/PUBLISHED

1. "Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference," D. Kieda, M. Salamon, and B. Dingus, editors *University of Utah, Salt Lake City, Utah* (1999) (7 volumes)
2. "Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference: Contributed Papers (CDROM)," D. Kieda, M. Salamon, and B. Dingus, editors *University of Utah, Salt Lake City, Utah* (1999)
3. "Proceedings of the 26<sup>th</sup> International Cosmic Ray Conference: Invited, Rapporteur, and Highlight Papers," B. Dingus, D. Kieda, and M. Salamon, editors *AIP Conference Proceedings 516*, AIP Melville, NY(2000)
4. "Utah TeV Workshop: Towards a Major Atmospheric Detector VI," B. Dingus, M. Salamon, and D. Kieda, editors *AIP Conference Proceedings 515*, AIP, Melville, NY (2000)
5. "Proceedings of the 2009 SnowBird Particle Astrophysics and Cosmology Workshop (SNOWPAC2009)", D. Kieda and P. Gondolo, editors *ASP Conference Series 426* ASP, (2010)
6. "Science with the Cherenkov Telescope Array," B. S. Acharya *et al.*, *World Scientific, New Jersey* eprint arXiv:1709.07997 (2018).

**National Academy of Science White Papers (ASTRO 2020 survey)**

1. “Science opportunities enabled by the era of Visible Band Stellar Imaging with sub-100  $\mu$  arc-sec angular resolution,” D. Kieda *et al.* NAS Astro2020 Science White paper *arXiv:1908.03164(2019)*
2. “Astro2020 White Paper State of the Profession: Intensity Interferometry,” D. Kieda *et al.* NAS Astro2020 APC White paper *arXiv:1907.13181 (2019)*
3. “Astro2020 White Paper State of the Profession: The Southern Wide-Field Gamma-Ray Observatory (SWG0): A Next-Generation Ground-Based Survey Instrument for VHE Gamma-Ray Astronomy,” P. Abreau *et al.* NAS Astro2020 APC White paper *arXiv:1907.07737 (2019)*
4. “Where are the Pevatrons?,” P. Cristofari *et al.* NAS Astro2020 Science White paper *BAAS 51 (3) (2019)*
5. “Pulsars in a Bubble? Following Electron Diffusion in the Galaxy with TeV Gamma Rays,” H. Fleischack *et al.* NAS Astro2020 Science White paper *arXiv:1903.07647 (2019)*
6. “The Cherenkov Telescope Array,” D. Williams *et al.* NAS Astro2020 Science White paper no. 291; Bulletin of the American Astronomical Society, Vol. 51, Issue 7, id. 291 (2019)

## INVITED/PLENARY TALKS, COLLOQUIUM and SEMINARS

- “Uncovering the origin of highest-energy cosmic rays with the VERITAS gamma-ray observatory,”  
Jashore University of Science and Technology  
Jamal Nazrul Islam Astronomy Club  
Particle Astrophysics Seminar  
Jessore, Bangladesh  
November 3 , 2021
- “Visible-Band Observations of Nearby Stars with Sub-milliarcsecond Resolution Using Stellar Intensity Interferometry,”  
International Webinar in Physics  
Dept of Physics, Pabna University of Science and Technology  
Pabna, Bangladesh  
July 8, 2021
- “Uncovering the origin of highest-energy cosmic rays with the VERITAS gamma-ray observatory,”  
University of Maryland-College Park  
Particle Astrophysics Seminar  
College Park, Md  
April 29, 2021
- “Actionable Outcome Data on Graduate Alumni: a discussion with the University of Utah and Academic Analytics,”  
Western Association of Graduate School Annual Meeting 2021  
Virtual Meeting  
March 22, 2021
- “Uncovering the origin of highest-energy cosmic rays with the VERITAS gamma-ray observatory,”  
Royal Astronomical Society of Canada -Calgary Centre  
March 18, 2021
- “Graduate School Admissions in STEM fields,”  
BYU Graduate Career Panel  
November 24, 2020
- “Graduate Education in the post-COVID Era,”  
Council of Graduate Schools  
Future of Research Focus Series  
November 10, 2020
- “Graduate School Initiatives to work in the COVID era,”  
NORC/NSF/CGS Public Panel discussion  
October 29, 2020
- “Using AI Software to Accelerate Thesis Office Clearance Process”

Western Association of Graduate Schools Annual Meeting  
Albuquerque, NM  
March 10, 2020

“Rebooting the UU Graduate Tuition Benefits with Faculty Support,”  
Western Association of Graduate Schools Annual Meeting  
Albuquerque, NM  
March 10, 2020

“Status of the CTA Stellar Intensity Interferometry/Optical  
Transient Working Group,”  
CTA Consortium Meeting  
Bologna, Italy  
Oct 22, 2019

“Towards the development of visible band astronomical imaging  
with multi-kilometer baselines,”  
Physics Department Colloquium  
Ohio State University  
Columbus, OH  
September 3, 2019

“Highlights of the New VERITAS-SII Results”  
CTA Consortium Meeting  
Lugano, Switzerland  
June 6, 2019

- “Ultra-high Resolution Astronomical imaging using quantum properties of light,”  
Physics Department Colloquium  
Idaho State University  
Pocatello, ID  
November 5, 2018
- “Ultra-high Resolution Astronomical imaging using quantum properties of light,”  
Summer REU Seminar  
University of Utah  
Salt Lake City, UT  
July 25, 2018
- “Ultra-high Resolution Astronomical imaging using quantum properties of light,”  
Physics Department Colloquium  
Georgia Tech University  
Atlanta, GA  
October 1, 2018
- “Ultra-high Resolution Astronomical imaging using quantum properties of light,”  
PACIFIC 2018 Particle Astrophysics Meeting  
Sapporo, Japan  
February 18, 2018
- “Ultra-high Resolution Astronomical imaging using quantum properties of light,”  
Physics Department Colloquium  
Brigham Young University  
Provo, Utah  
November 29, 2017
- “Development of the Quantum Astronomy”  
Undergraduate Seminar  
University of Utah  
Salt Lake City, Utah  
September 14, 2017
- “Ultra-high Resolution Astronomical imaging using quantum properties of light,”  
Summer REU seminar  
University of Utah  
Salt Lake City, Utah  
July 26, 2017
- “Using HBT Interferometry for Astronomical Imaging,”  
47th Winter Colloquium on the Physics of Quantum Electronics  
(PQE 2017)  
Snowbird, Utah  
January 9, 2017

- “Using HBT Interferometry for Ultra-high Resolution Astronomical Imaging”  
 SCI Institute Department Seminar  
 University of Utah  
 Salt Lake City, Utah  
 November 29, 2016
- “Development of the Quantum Astronomy”  
 Undergraduate Seminar  
 University of Utah  
 Salt Lake City, Utah  
 October 20, 2016
- “Recent Advances in Ground-Based Gamma-Ray Particle Astrophysics,”  
 XLVI International Symposium on Multiparticle Dynamics  
 (ISMD2016)  
 Seogwipo, Jeju-do, South Korea  
 September 1, 2016
- “Ultra-High Resolution Astronomical Imaging and Stellar Intensity Interferometry,”  
 Physics Department Colloquium  
 University of Alexandria  
 Alexandria, Egypt  
 November 21, 2015
- “VHE gamma-ray astronomy: The New Window on the Universe,”  
 Physics department Colloquium  
 University of Alexandria  
 Alexandria, Egypt  
 November 20, 2014
- “Promoting Graduate Student Mentorship,”  
 MRSEC Weekly Seminar  
 University of Utah  
 July 14, 2015
- “Ultra-High Resolution Astronomical Imaging and Stellar Intensity Inteferometry,”  
 PACIFIC 2014 Conference  
 Gump Research Station  
 Moorea, French Polynesia  
 September 18, 2014
- “CTA/Stellar Intensity Interferometry Update,”  
 Workshop on HBT Interferometry  
 Observatoire de al Cote d’Azure  
 Nice, France  
 May 13, 2014

- “Science Possibilities with Very-Low and Ultra-High Resolution Cherenkov Imaging Arrays,”  
 Workshop on Non-Imaging Cherenkov Arrays  
 University of Utah  
 August 22, 2013
- “Cosmic Ray Energy Spectrum & Composition with the DICE Observatory,”  
 Workshop on Non-Imaging Cherenkov Arrays  
 University of Utah  
 August 22, 2013
- “Uncovering Pulsar Dynamics and Evolution using VHE gamma-rays,”  
 Physics Department Colloquium  
 Idaho State University  
 April 22, 2013
- “Studies of Galactic VHE  $\gamma$ -Ray Origin with VERITAS”  
 PACIFIC 2012 Conference  
 Gump Research Station  
 Moorea, French Polynesia  
 September 3, 2012
- “State of the Department 2012”  
 Physics Department Colloquium  
 University of Utah  
 Salt Lake City, Utah  
 August 23, 2012
- “VHE Gamma-ray Cherenkov Telescopes”  
 Solar CPV Electrical Power Workshop  
 SouthWest Solar Technologies  
 Phoenix, AZ  
 December 6, 2011
- “Intensity Interferometry with Large Light Buckets ”  
 Solar CPV Electrical Power Workshop  
 SouthWest Solar Technologies  
 Phoenix, AZ  
 December 6, 2011
- “Gamma-Ray Astronomy and Particle Astrophysics with the VERITAS Observatory”  
 Physics Department Colloquium  
 Jazan University  
 Jazan, Saudi Arabia  
 February 19, 2012



- “State of the Department of Physics And Astronomy”  
 Physics Department Colloquium  
 University of Utah  
 Salt Lake City, Utah  
 August 25, 2011
- “Status of the Department : Fall 2010”  
 Physics Department Colloquium  
 University of Utah  
 Salt Lake City, Utah  
 August 24, 2010
- “ Development of a modern stellar intensity interferometry capability using  
 Imaging Air Cherenkov Telescope arrays”  
 Quantum of Quasars Workshop  
 Grenoble, France  
 December 6, 2009
- “Status of the Department of Physics”  
 Physics Department Colloquium  
 University of Utah  
 Salt Lake City, Utah  
 August 20, 2009
- “Science Potential of High Altitude Imaging Air Cherenkov Telescope arrays  
 as Intensity Interferometry receivers”  
 The 1<sup>st</sup> Workshop on Gamma Ray Astronomy at High Altitude  
 Hebei, China  
 April 28, 2009
- “Status of the Department of Physics”  
 Physics Department Colloquium  
 University of Utah  
 Salt Lake City, Utah  
 August 21, 2008
- “Recent Results from the VERITAS Observatory”  
 IAPS: The High Energy Frontier  
 Colorado School of Mines  
 Golden, CO  
 May 7, 2008
- “The Expanding VHE gamma-Ray Horizon”  
 Physics Department Colloquium  
 Technion University  
 Haifa, Israel  
 February 21, 2008

- “The Expanding VHE gamma-ray Horizon”  
Physics Department Colloquium  
Brookhaven National Laboratory  
Upton, NY  
July 30, 2007
- “Advances in VHE gamma-ray Astronomy”  
Aspen Workshop on Cosmic Ray Physics  
Aspen Center for Physics  
Aspen, CO  
April 17, 2007
- “VHE Gamma-Rays: The New New Astronomy”  
Physics Department Colloquium  
Brigham Young University  
Provo, Utah  
March 28, 2007
- “VHE Gamma-Rays: The New New Astronomy”  
Physics Department Colloquium  
University of Utah  
Salt Lake City, Utah  
March 9, 2007
- “Quantum Mechanics, Extrasolar Planets, and the Expanding Universe”  
Undergraduate Seminar  
University of Utah  
Salt Lake City, Utah  
February 15, 2007
- “VERITAS Gamma-Rays and First Light”  
Graduate Seminar  
University of Utah  
Salt Lake City, Utah  
February 13, 2007
- “VERITAS Status”  
First GLAST Science Symposium  
Stanford University  
Palo Alto, CA  
February 6, 2007
- “VERITAS Status”  
VERITAS JOG Review  
F.L. Whipple Observatory  
Amado, AZ  
February 1, 2007

- “TeV Gamma Ray Emission in the Cygnus Region”  
 OIR Division Seminar  
 Harvard-Smithsonian CfA  
 Cambridge, MA  
 January 8, 2007
- “Multiwavelength AGN Studies with meter-class Optical Telescope”.  
 Southern Utah Observatory Meeting  
 University of Utah  
 Salt Lake City, Utah  
 June 26, 2006
- “Next Generation Particle Astrophysics with GeV/TeV gamma-rays”  
 International Workshop on US-China Collaboration  
 Chinese Academy of Science, IHEP  
 Beijing, China  
 June 15, 2006
- “What I did on My Summer Vacation”  
 Physics Department Colloquium  
 University of Utah  
 Salt Lake City , Utah  
 November 11, 2004
- “TeV Gamma Rays as Probes of Fundamental Physics”  
 Undergraduate Colloquium  
 University of Utah  
 Salt Lake City , Utah  
 November 11, 2004
- “TeV Gamma Rays as Probes of Fundamental Physics”  
 Physics Department Colloquium  
 Utah State University  
 Logan , Utah  
 March 16, 2004
- “c=1: Who needs it?”  
 HEP Astrophysics Seminar  
 University of Utah  
 Salt Lake City , Utah  
 February 24, 2004
- “Searching for Dark Matter and Quantum Gravity with VERITAS”  
 Undergraduate Seminar  
 University of Utah  
 Salt Lake City, UT  
 September 17, 2003

- “Searching for High Energy Cosmic Ray Origin with the  
ANITA Balloon Experiment”  
Physics Department Colloquium  
Brigham Young University  
Provo, Utah  
December 3, 2002
- “EHE Cosmic Rays, EHE Neutrinos, and GeV-TeV Gamma Rays  
ANITA Collaboration Meeting  
University of California-Irvine  
Irvine, CA  
November 24, 2002
- “High Resolution Cosmic ray Studies using Next Generation  
Observatories”  
The Universe viewed in Gamma-rays  
ICRR University of Tokyo  
Kashiwa, Japan  
September 28, 2002
- “Gamma Ray Signatures of Dark Matter and Quantum Gravity”  
Undergraduate Seminar  
University of Utah  
Salt Lake City, UT  
September 19, 2002
- “Particle Astrophysics with GeV/TeV Energy Gamma Rays”  
Physics Department Colloquium  
Ohio State University  
Columbus, OH  
March 12, 2002
- “High Energy Astrophysics in Utah”  
Undergraduate Seminar  
University of Utah  
Salt Lake City, UT  
February 28, 2002
- “The Role of Ultra-Heavy Nuclei in PeV  
Galactic Cosmic ray Origin”  
Institute Seminar  
Max Planck Institut fur Kernphysik  
Heidelberg, Germany  
February 20, 2002

- “High Resolution Cosmic Ray Charge Measurements Using the Direct Cerenkov Light Technique”  
Physics Department Seminar  
Konan University  
Kobe, Japan  
November 30, 2001
- “Lightning, Cerenkov Radiation, Neutrino Mixing and the Origin of Cosmic Rays”  
Physics Department Colloquium  
University of Utah  
Salt Lake City, Utah  
September 6, 2001
- “High Resolution Measurements of Cosmic Ray composition using the Direct Cerenkov Technique”  
Workshop on High Resolution Measurements of Cosmic Ray Composition  
Hamburg, Germany  
August 11, 2001
- “Origin of the Cosmic Ray Knee: The Ground-Based Perspective”  
Snowmass 2001  
the future of particle physics  
Snowmass, Colorado  
July 17, 2001
- “Experimental High Energy Astrophysics with the VERITAS Observatory”  
INSCC Colloquium  
University of Utah  
Salt Lake City, Utah  
February 14, 2001
- “Recent Results from the Whipple Gamma Ray Observatory”  
XXXVIth Rencontres de Moriond  
Very High Energy Phenomena in the Universe  
Les Arcs, France  
January 23, 2001
- “VERITAS: Very Energetic Radiation Imaging Telescope Array System”  
XXXVIth Rencontres de Moriond  
Very High Energy Phenomena in the Universe  
Les Arcs, France  
January 26, 2001

“High Resolution Charge Measurements in Next Generation  
Ground-based Cosmic Ray Observatories”

Physics Department Seminar  
Ohio State University  
Columbus, Ohio  
November 29, 2000

“High Resolution Charge Measurements in Next Generation  
Ground-based Cosmic Ray Observatories”

Physics Department Colloquium  
University of Utah  
Salt Lake City, Utah  
August 24, 2000

“High Resolution Charge Measurements for Cosmic Ray Observation Near  
The Knee of the All-Particle Spectrum”

Workshop on the High Energy Composition of Cosmic Rays  
Adler Planetarium  
Chicago, Illinois  
June 17, 2000

“High Energy Gamma Ray Astrophysics”

Undergraduate Seminar  
University of Utah  
Salt Lake City, Utah  
March 25, 1999

“Cosmic Ray Detectors in Utah”

American Physical Society  
Four Corners Meeting  
University of New Mexico  
April 4, 1998

“Observations of Extraterrestrial/Extragalactic Matter  
in Utah’s West Desert”

Idaho State University  
Physics Department Colloquium  
February 2, 1998

“Measurement of Primary Composition near the Knee of the  
All Particle Spectrum with the DICE Observatory”

University of Utah  
Physics Department Colloquium  
November 20, 1997

- “Measurement of Primary Composition near the Knee of the All Particle Spectrum with the DICE Observatory”  
HESS Workshop  
Ringberg, Germany  
October 2, 1997
- “Searching for the Source of Extremely High Energy Cosmic Rays”  
Undergraduate Seminar  
University of Utah  
Salt Lake City, Utah  
October 3, 1996
- “Gamma Ray Bursts”  
Undergraduate Seminar  
University of Utah  
Salt Lake City, Utah  
April 18, 1996
- “Cherenkov Light Detection of ZeV Cosmic Rays”  
Laboratory for Astrophysics and Space Research Seminar  
University of Chicago  
Chicago, Illinois  
February 21, 1996
- “Searching for the Origins of Extremely High Energy Cosmic Rays”  
Physics Department Colloquium  
University of Arkansas, Little Rock  
Little Rock, Arkansas  
January 23, 1996
- “Searching for the Origins of Extremely High Energy Cosmic Rays”  
Physics Department Seminar  
Arkansas State University  
Jonesboro, Arkansas  
January 22, 1996
- “The HiRes Fly’s Eye and Auger Observatories”  
Physics Department Seminar  
Arkansas State University  
Jonesboro, Arkansas  
January 22, 1996
- “Nitrogen Fluorescence/Air Cherenkov Techniques for Use in The Auger Project Observatory”  
Auger Workshop  
24<sup>th</sup> International Cosmic Ray Conference  
Rome, Italy  
September 1, 1995

- “A New Detection Technique for the Observation of ZeV Cosmic Rays”  
 Physics Department Colloquium  
 Stanford Linear Accelerator Laboratory  
 Stanford, CA  
 April 3, 1995
- “A New Detection Technique for the Observation of ZeV Cosmic Rays”  
 Giant Airshower Detectors Workshop  
 Fermilab National Accelerator Laboratory  
 Batavia, IL  
 January 31, 1995
- “A New Detection Technique for the Observation of ZeV Energy Cosmic Rays”  
 Physics Department Colloquium  
 University of Utah Department of Physics  
 Salt Lake City, UT  
 November 10, 1994
- “The Search for Ultra High Energy Cosmic Rays,”  
 Friday Science Seminar  
 Southern Oregon State College  
 Ashland, Oregon  
 October 15, 1993
- “Search for the Sources of Extremely High Energy Cosmic Rays with the High Resolution Fly’s Eye Detector”  
 University of California - Irvine  
 Physics Department Seminar  
 May 12, 1992
- “Search for the Sources of Extremely High Energy Cosmic Rays”  
 Rutgers University  
 Physics Department Colloquium  
 April 30, 1992
- “Search for the Sources of Extremely High Energy Cosmic Rays”  
 University of Maryland  
 Physics Department Colloquium  
 April 29, 1992 “The UMC Detectors”  
 University of Arizona Physics Dept. Seminar  
 April 30, 1990
- “Origins of Ultra High Energy Cosmic Rays”  
 University of Utah Physics Dept. Seminar  
 April 24, 1990



“Cosmic Ray Composition and Muon Decoherence at the Knee of the All-Particle Cosmic Ray Spectrum”

University of Pennsylvania

February 16, 1989

“Cosmic Ray Composition and Muon Decoherence Using the Homestake Surface Array and Underground Detectors”

University of Utah Physics Dept. Seminar

June 27, 1988

“First Results from the Homestake Surface-Underground Telescope”,

University of Pennsylvania Astronomy Department seminar

April 25, 1986

“Physics Opportunities at the Homestake Gold Mine”, South Dakota

School of Mines and Technology Physics Department seminars

November 8 and 15, 1984

## **PUBLIC LECTURES**

“Uncovering the origin of highest-energy cosmic rays with the VERITAS gamma-ray observatory,”

Calgary Public Library Lecture Series

Royal Astronomical Society of Canada

Calgary, Alberta

March 18, 2021

“Working with Raymond Davis Jr. in the 1980’s ”

Raymond Davis Jr. Memorial Dedication

Sanford Underground Research Facility

Lead, South Dakota

August 26, 2015

“Overview of Astrophysics Research at the University of Utah”

College of Science Lecture

Jazan University

Jazan, Saudi Arabia

February 21, 2012

“US Science Policy and Dr. Strangelove”

Utah Museum of Natural History Film Series

Salt Lake Public Library

Salt Lake City, Utah

November 3, 2010

- “Astronomy Research in Utah”  
 MESA Awards Banquet Dinner  
 Canyons School District  
 Sandy, Utah  
 April 29, 2010
- “Status of the University of Utah’s Astronomy Program”  
 Salt Astronomical Society  
 Salt Lake City, Utah  
 August 19, 2009
- “Astronomy in Utah”  
 Realms of Inquiry High School  
 Salt Lake City, Utah  
 January 21, 2009
- “The Reasons for the Seasons”  
 McGillis Elementary School  
 Salt Lake City, Utah  
 December 5, 2007
- “High Energy Gamma-Rays: The New Astronomy”  
 ‘Science at Breakfast’  
 College of Science Invited Talk  
 University of Utah  
 Salt Lake City, Utah  
 February 28, 2007
- “Finding Extrasolar Planets”  
 McGillis Elementary School  
 Salt Lake City, Utah  
 December 13, 2006
- “A Short Story about the Big Bang”  
 McGillis Elementary School  
 Salt Lake City, Utah  
 December 17, 2004
- “Ground-based High Energy Gamma-Rays: The New Astronomy”  
 Salt Lake Astronomical Society  
 Salt Lake City , Utah  
 October 28, 2003

- “Ground-based High Energy Gamma-Rays: The New Astronomy”  
 ALCON 2002 Meeting  
 Salt Lake City , Utah  
 August 3, 2002
- “High Energy Astrophysics in Utah”  
 ‘Science at Breakfast’  
 College of Science Invited Talk  
 University of Utah  
 Salt Lake City, Utah  
 September 19, 2001
- “Observations of Our Universe and Cosmic Rays”  
 Project ASTRO  
 Libby Edwards Elementary School  
 Salt Lake City, Utah  
 May 7,1998
- “Observations of Extraterrestrial/Extragalactic Matter  
 in Utah’s West Desert”  
 University of Utah  
 College of Science Day  
 November 22, 1997
- “Millard County Water Tank Projects”  
 Millard County School Board Meeting  
 Delta, Utah  
 September 11,1997
- “ Observations of Extraterrestrial/Extragalactic Matter  
 in Utah’s West Desert (2 lectures)”  
 University of Utah  
 College of Science Day  
 November 16, 1996
- “ The Auger Cosmic Ray Observatory”  
 Delta High School  
 Delta, Utah  
 October 15, 1996

- “ The Auger Cosmic Ray Observatory”  
 Fillmore High School  
 Fillmore, Utah  
 October 15, 1996
- “The Intermountain West Atmosphere as a National Scientific Resource”  
 Utility Restructuring, ZEVs and  
 Rethinking the Environment of the West:  
 A Summit on Energy, Economy, and the Environment  
 Midway, UT  
 July 12, 1995
- “The Highest Energy Cosmic Rays,”  
 College of Science Day Lecture  
 University of Utah  
 Salt Lake City, UT  
 December 4, 1993
- “The Cosmic Ray Observatory at the Dugway Proving Grounds,”  
 Physics SAC Lecture  
 University of Utah  
 Salt Lake City, UT  
 May 16, 1993

## **CONTRIBUTED LECTURES**

- “Very High-energy Gamma-ray Emission from LSI +61 303 Binary“  
 37th International Cosmic Ray Conference -DESY  
 Virtual Meeting  
 July 2021
- ”Status of the VERITAS Stellar Intensity Interferometry (VSII) System”  
 37th International Cosmic Ray Conference -DESY  
 Virtual Meeting  
 July 2021
- ”The VERITAS-Stellar Intensity Interferometry (VSII) survey of Stellar Diameters”  
 37th International Cosmic Ray Conference -DESY  
 Virtual Meeting  
 July 2021

- ”Recent Science Results from the VERITAS Stellar Intensity Interferometer,”  
 2021 April meeting of the American Physical Society  
 Virtual meeting  
 April 17, 2021
- “New Science Results from the VERITAS Stellar Intensity Interferometer,”  
 237th American Astronomical Society Meeting  
 Jan 15, 2021
- “Sub-milliarcsecond observations of nearby stars in the visible waveband  
 using VERITAS-SII”  
 235th American Astronomical Society Meeting  
 Honolulu, HI  
 Jan 5, 2020
- “Characterizing the VHE Emission of LS I +61 303 using VERITAS Observations ”  
 36th International Cosmic Ray Conference  
 University of Wisconsin-Madison, WI  
 July 29, 2019
- ”Searching for Optical Flashes from Extraterrestrial Civilizations with  
 Atmospheric Cherenkov Telescopes”  
 2019 Astrobiology Science Conference  
 American Geophysical Union Meeting  
 Belluvue, WA  
 June 26, 2019
- ” Augmentation of VERITAS Telescopes for Stellar Intensity Interferometry “  
 April Meeting of the APS  
 Denver, CO  
 April 14, 2019
- “Development of a prototype Schwarzschild-Couder telescope  
 for the Cherenkov Telescope Array: status and performance“  
 4 Corners Meeting of the APS  
 University of Utah  
 Salt Lake City, UT  
 October 13, 2018

- “Stellar Intensity Interferometric Capabilities of IACT Arrays”  
 35th International Cosmic Ray Conference  
 Busan, Korea  
 August 19, 2017
- “Decadal VERITAS Observations of LS I +61 303 :  
 Detection of constant TeV emission around entire orbit”  
 35th International Cosmic Ray Conference  
 Busan, Korea  
 August 13, 2017
- “Stellar Intensity Interferometric Capabilities of IACT Arrays”  
 230th meeting of the American Astronomical Society  
 Austin, TX  
 June 5, 2017
- “HBT SII Studies at the University of Utah”  
 SPIE Astronomical Telescopes and Instrumentation  
 Edinburgh, Scotland, UK  
 June 28, 2016
- “Experimental steps towards a digital revival of Stellar Intensity Interferometry”  
 April meeting of the American Physical Society  
 Salt Lake City, UT  
 April 17, 2016
- “Direct Cherenkov and Trans-Iron Nuclei”  
 4 Corners meeting of the American Physical Society  
 Orem, UT  
 October 18, 2014
- “VERITAS post-upgrade  $\gamma$ -ray Sensitivity”  
 33<sup>rd</sup> ICRC  
 Rio de Janeiro, Brazil  
 July 3, 2013
- “SCT Commercial Positioners  
 UCLA SCT Design Workshop  
 University of California-Los Angeles  
 Los Angeles, CA  
 January 14, 2013
- “Northern Sites for CTA Observatory”  
 CTA Meeting  
 Rome, Italy  
 October 23, 2012
- “CTA/Stellar Intensity Interferometry Update”  
 CTA Meeting  
 Amsterdam, Netherlands  
 May 16, 2012

- “Status of the VERITAS Upgrade”  
 32<sup>nd</sup> International Cosmic Ray Conference  
 Beijing, China  
 August 16, 2011
- “Status of the VERITAS Upgrade”  
 April meeting of the American Physical Society  
 Irvine, CA  
 April 30, 2011
- “VERITAS Upgrade: Description and Status”  
 4 Corners meeting of the American Physical Society  
 Odgen, UT  
 October 24, 2010
- “Development of a Stellar Intensity Interferometric System at StarBase Utah”  
 4 Corners meeting of the American Physical Society  
 Golden, CO  
 October 24, 2009
- “Intensity Interferometry with Cerenkov Telescopes (An Introduction)”  
 IHOT09: The Interferometric View on Hot Stars  
 ESO conference  
 Vina Del mar, Chile  
 March 2, 2009
- “VERITAS Measurements of TeV Gamma-ray emission from the  
 Supernova Remnant IC443”  
 January 2008 AAS meeting  
 Austin, TX  
 January 10, 2008
- “ Status of the Southern Utah Observatory (SUO) 32 inch Telescope”  
 Four Corners Meeting American Physical Society  
 Northern Arizona University  
 Flagstaff, AZ  
 October 19, 2007
- “ A Southern Utah Optical Observatory”  
 Los Alamos Future TeV Workshop  
 Los Alamos National Laboratory  
 Santa Fe, New Mexico  
 May 12, 2006

- “Wide Field of View Surveying in Next-Generation GeV/TeV Observatories”  
 UCLA Future TeV Workshop  
 Malibu, California  
 October 21, 2005
- “Wide Field of View Surveying in Next-Generation GeV/TeV Observatories”  
 Cherenkov 2005 Meeting  
 Palaiseau, France  
 April 29, 2005
- “Evidence for New Unidentified GeV/TeV  $\gamma$ -ray Sources  
 from Recent Northern Sky Surveys”  
 The Universe in Gamma Rays: Heidelberg  $\gamma$ -ray 2004  
 Heidelberg , Germany  
 July 25, 2004
- “Search for Tibet Array Unidentified Sources Using the Whipple  
 10 m Gamma-Ray Observatory”  
 Four Corners APS meeting  
 Arizona State University  
 Tempe, AZ  
 Oct 25, 2003
- “Science Capabilities of the VERITAS Array of 10m Imaging Atmospheric  
 Cherenkov Gamma-Ray Detectors”  
 Astronomical Telescopes and Instruments SPIE Meeting  
 Waikoloa, HI  
 Aug 25, 2002
- “High Resolution Charge Measurements of UH Cosmic Ray Nuclei  
 Using a Direct Imaging Cherenkov Ground-Based Observatory”  
 Astronomical Telescopes and Instruments SPIE Meeting  
 Waikoloa, HI  
 Aug 25, 2002
- “Science and Strawman Design of the OCHRE Detector”  
 OMNIS-OCHRE Meeting  
 Argonne National Laboratory  
 Argonne, IL  
 May 25, 2002



- “High Energy Astrophysics with a Direct Cerenkov Light Observatory”  
 Astrophysics Seminar  
 Ohio State University  
 Columbus, OH  
 March 11, 2002
- “High Resolution Cosmic Ray Charge Measurements Using  
 the Direct Cerenkov Light Technique”  
 4 Corners APS Meeting  
 New Mexico State University  
 Las Cruces, New Mexico  
 November 3, 2001
- “PeV and EeV Cosmic Rays”  
 FORTE Observatory meeting  
 Los Alamos National Lab  
 Los Alamos, New Mexico  
 March 8, 2001
- “The Energy Spectrum in the Knee Region from DICE”  
 26<sup>th</sup> International Cosmic Ray Conference  
 Salt Lake City, Utah  
 August 21, 1999
- “Measurements of Cosmic ray Composition near the Knee of the  
 All-Particle Spectrum with the DICE experiment”  
 19<sup>th</sup> Texas Symposium on Relativistic Astrophysics  
 Paris, France  
 December 17, 1998
- “Introduction to the Utah 26<sup>th</sup> International Cosmic Ray Conference”  
 25<sup>th</sup> International Cosmic ray Conference  
 Durban, South Africa  
 August 5, 1997
- “Measurement of Elemental Composition in the Knee region from  
 the DICE detector”  
 25<sup>th</sup> International Cosmic ray Conference  
 Durban, South Africa  
 August 1, 1997
- “Measurement of the Angular Distribution of Cerenkov Photons  
 Using the DICE Detector”  
 25<sup>th</sup> International Cosmic Ray Conference  
 Durban, South Africa  
 August 1, 1997

- “Measurement of the Energy Dependence of the Depth of Shower Maximum in the Knee Region from the DICE Detector”  
 25<sup>th</sup> International Cosmic Ray Conference  
 Durban, South Africa  
 August 1,1997
- “Detection Capabilities of a Very Large Array of Atmospheric Cerenkov Detectors”  
 25<sup>th</sup> International Cosmic Ray Conference  
 Durban, South Africa  
 August 1,1997
- “Measurements of EAS Longitudinal Development with the DICE detector”  
 25<sup>th</sup> International Cosmic Ray Conference  
 Durban, South Africa  
 July 29,1997
- “Electronics Design Requirements for the Auger Nitrogen Fluorescence Detector  
 Auger 1997 Spring Meeting  
 Park City, Utah  
 May 8,1997
- “ Recent results from the DICE Detector  
 Los Alamos National Lab  
 Workshop of Air Cherenkov Detectors for Fenton Hill  
 March 13, 1997
- “Recent Results from the Dual Imaging Cherenkov Experiment”  
 VERITAS Workshop  
 Tucson, Arizona  
 January 11,1997
- “Nitrogen Fluorescence detector Design Requirements for the Auger Project”  
 Auger Project Meeting  
 San Rafael, Argentina  
 September 11, 1996
- “Air ČerenkovDetectors for the Auger Detector”  
 Nitrogen Fluorescence Development Workshop  
 University of Utah  
 Salt Lake City, Utah  
 March 5, 1996
- “Reliability Issues for the Auger Detector”  
 Electronics Development Workshop  
 Fermilab National Accelerator  
 Batavia, Illinois  
 February 24, 1996

- “A Direct Measurement of the Angular Distribution of ČerenkovPhotons  
in Extensive Air Showers Using the DICE detector”  
24<sup>th</sup> International Cosmic Ray Conference  
Rome, Italy  
September 5, 1995
- “A New Detection Technique for Observation of ZeV Energy  
Cosmic Rays”  
24<sup>th</sup> International Cosmic Ray Conference  
Rome, Italy  
September 4, 1995
- “High Resolution Fly’s Eye Project”  
24<sup>th</sup> International Cosmic Ray Conference  
Rome, Italy  
September 1, 1995
- “Optimized Resolution of a Solar Panel Add-on Detector for the Auger Project”  
Tuesday Afternoon Seminar  
Giant Airshower Detectors Workshop  
Fermilab National Accelerator Laboratory  
Batavia, IL  
July 18, 1995
- “Solar Panel Detection Technique for Observation of  
ZeV Cosmic Rays”  
Giant Airshower Detectors Workshop  
Fermilab National Accelerator Laboratory  
Batavia, IL  
May 2, 1995
- “A Large Atmospheric Imaging Detector for Gamma Ray Astronomy  
in the 10 - 500 GeV Energy Range ”  
International Symposium on Cosmic Ray Physics  
Lhasa, Tibet  
August 14, 1994
- “A New Optical Technique for Daylight Measurements of  
Cosmic Ray Properties above  $10^{19}$  eV ”  
International Symposium on Cosmic Ray Physics  
Lhasa, Tibet  
August 13, 1994

“A New Optical Technique for Daylight Measurements of Cosmic Ray Properties above  $10^{19}$  eV ”

Snowmass 94, Particle and Nuclear Astrophysics  
and Cosmology in the Next Millennium

Snowmass, Colorado

July 11, 1994

“A Dual Imaging Cerenkov Experiment (DICE) for measurement of Primary Composition Near the Knee of the All-Particle Spectrum”

Snowmass 94, Particle and Nuclear Astrophysics  
and Cosmology in the Next Millennium

Snowmass, Colorado

July 9, 1994

“The High Resolution Fly’s Eye Experiment,”  
23<sup>rd</sup> International Cosmic Ray Conference

Calgary, Alberta Canada

July 29, 1993

“Search for UHE Emission from Gamma Ray Bursters,”  
23<sup>rd</sup> International Cosmic Ray Conference

Calgary, Alberta Canada

July 20, 1993

“Status of the High Resolution Fly’s Eye Prototype Detector,”  
American Physical Society Meeting

Washington, DC

April 14, 1993

“The High Resolution Fly’s Eye Detector”

Vulcano Workshop 1992

Vulcano, Italy

May 22, 1992

“Description and Status of the High Resolution (HiRes) Fly’s  
Eye Detector”

22<sup>st</sup> International Cosmic Ray Conference

Dublin, Ireland

August 14, 1991

- “Constraints on High Energy Inelasticity from the Measurement of Extensive Air Shower Development by the Fly’s Eye Detector”  
 22<sup>st</sup> International Cosmic Ray Conference  
 Dublin, Ireland  
 August 14, 1991
- “Ultra-High Energy Gamma Ray Astronomy with the High Resolution Fly’s Eye Detector”  
 International Conference on High Energy Gamma Ray Astronomy  
 Ann Arbor, Michigan  
 October 5, 1990
- “The High Resolution Fly’s Eye”  
 1990 Summer Study on High Energy Physics  
 Snowmass, Colorado  
 June 28, 1990
- “New Flux Limits for Deeply Penetrating Particles Observed by the Fly’s Eye Detector”  
 21<sup>st</sup> International Cosmic Ray Conference  
 Adelaide, Australia  
 January 16, 1990
- “The Cosmic Ray Primary Composition for  $3 \times 10^{13} - 3 \times 10^{15}$  eV using Multiple Muons Observed with the Homestake Liquid Scintillation Detector”  
 21<sup>st</sup> International Cosmic Ray Conference  
 Adelaide, Australia  
 January 16, 1990
- “The Muon Content of Extensive Air Showers with  $E \geq 2 \times 10^{17}$  eV”  
 21<sup>st</sup> International Cosmic Ray Conference  
 Adelaide, Australia  
 January 10, 1990
- “Current Prospects for Measurements of Cosmic Rays with Energies Above  $10^{19}$  eV”  
 Workshop on the NASA Cosmic Ray Program for the 1990’s and Beyond  
 NASA-Goddard Space Flight Center  
 Greenbelt, MD  
 November 7, 1989

“Characteristics and Analysis of Data from the Homestake Surface-Underground Telescope”

6<sup>th</sup> Course of the  
International School of Cosmic-Ray Astrophysics  
Ettore Majorana Centre  
Erice, Italy  
April 28, 1988

“Cosmic Ray Composition Measurement with the Homestake Surface-Underground Telescope”

Delaware Valley Regional Astronomy Meeting  
University of Delaware  
Newark, Del.  
October 24, 1987

“Cosmic Ray Composition Near  $10^{15}$  eV: Results from the Homestake Surface-Underground Telescope”

$XX^{th}$  International Cosmic Ray Conference  
Moscow, USSR  
August 6, 1987

“First Results from the Homestake Surface-Underground Telescope”

American Physical Society Meeting  
Washington, D.C.  
May 1, 1986