

Daniel Claes
Professor, Physics & Astronomy
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Education:

Ph.D. 1991	Northwestern University, Evanston, IL	Major: Physics
	Thesis: “ <i>Measurement of the D^* Photoproduction Cross Section</i> ” FNAL Experiment 687 Adviser: Prof. Bruno Gobbi, Northwestern University	
M.S. 1982	Northeastern Illinois University, Chicago	Major: Physics
B. S. 1976	University of Northern Iowa, Cedar Falls	Majors: Physics, Mathematics

Professional Experience:

2007 – present	Professor & Chair , Dept of Physics & Astronomy	University of Nebraska-Lincoln
2002 – 2007	Associate Professor of Physics & Astronomy	University of Nebraska-Lincoln
1996 – 2002	Assistant Professor of Physics & Astronomy	University of Nebraska-Lincoln
1991 – 1996	Postdoctoral Research Associate	S.U.N.Y. at Stony Brook
1985 – 1991	PhD Research Candidate (FNAL E687)	Northwestern University
1983 – 1985	Teaching Assistant	Northwestern University
1980 – 1983	Mathematics Department Chair	Zion-Benton Twp. High School
1976 – 1983	Physics & Mathematics Instructor	Zion-Benton Twp. High School

Departmental Duties:

Chair of the Department of Physics and Astronomy	Aug, 2007 – present
Chair, Physics & Astronomy Department Graduate Committee	Aug, 2002 – Aug, 2007

Physics Interests :

Searches for *new phenomena* beyond the Standard Model, including evidence of SUSY (supersymmetry), particularly in the jets plus missing transverse energy (ME_T) final states.

***b*-tagging and the search for Standard Model Higgs**, graduate student Jason Keller’s work in tagging *b*-quark jets that decay to soft electrons (hidden within the jet) is now the tool he uses in an early CMS measurement of the top quark production cross section.

Cosmic rays are where the study of high energy physics began, and are the focus of my outreach efforts working with high school teachers and students (see below).

Underground Science: The first evidence of physics beyond the Standard Model (SM) has been the demonstration of neutrino oscillation (and, by implication, mass). Repeated confirmations reveal an unknown form of “dark matter” comprises some 80% of all matter. A comprehensive program of searches for physics beyond the standard model must include neutrino studies and direct dark matter searches.

Service Efforts:

1991-95 DØ DAQexp and LEVEL2 Expert: Code developer/consulting expert for the trigger simulator; supervised the work of 5 postdocs and 6 students on the Level 2 trigger; Library and Production czar; DAQexpert (one of a small core of trained Data Acquisition experts).

1996-2005 DØ LEVEL3 Upgrade Coordinator of the (software trigger) effort. This appointment carried major responsibility for all aspects of the Level 3 trigger from basic algorithm development and selection, coding, trigger definitions, and the software to drive them.

2004-2007 The HUSEP Organization The Henderson Underground Science and Engineering Project explored establishing NSF's proposed Deep Underground Science and Engineering Laboratory at Henderson Mine (Empire, CO). I served on the Physics Committee and led the Broader Impact Committee from June 2004 to June 2007.

2005-2006 DUSEL Topical Workshops Sessions organizer for three DUSEL topical workshops: *DUSEL Engineering Mining Workshop*, Colorado School of Mines, Golden, CO (Dec 2005); *DUSEL Geophysics & Astrophysics Workshop*, Co State Univ, Fort Collins, CO (Nov 2005); and the *DUSEL Biology Workshop*, Colorado University, Boulder, CO (Oct 2005).

NNN06 Workshop Organizing committee member, 2006 Next Generation Nucleon Decay and Neutrino Detector Workshop (September 21-23, Seattle, WA); Chaired 2 international sessions on Education and Outreach (high school cosmic ray projects, and DUSEL-related science).

1991 - present Editorial boards Service on these internal review boards guide DØ analysis through final approval before any public presentation or publication. I served on the editorial boards of SUSY searches for squark/qluinos, hadronically decaying top squarks, stop decays via

ee - jet-jet+ ME_T , hadronic searches for scalar and vector leptoquarks and WZ production cross sections. Additionally I served on two QCD boards: the dijet χ distribution and, chaired the board which reviewed a study of multijet cross section ratios. Currently I review all new phenomena searches in jets plus ME_T final states.

2005 - present University of Northern Iowa Physics Advisory Board Chair UNI's Physics Advisory Board; convene board meetings twice a year; file reports and making recommendations to the department chair. Specifically charged to evaluate and critique a new Professional Science Masters program, as well as more generally UNL's curriculum and recruitment efforts.

Outreach efforts:

UNL's Cosmic Ray Observatory Project.

Jointly funded by NSF's Division of Elementary, Secondary, and Informal Education and the Division of Physics, CROP is a statewide outreach project involving Nebraska high school students, teachers, and college undergraduates in a genuine multi-faceted, hands-on research effort to study extended cosmic-ray air showers. Gregory Snow and I are co-PIs of a 5-year (extended to 7) \$1,342,000 grant. An expanding group of high-school teams operate the school-based detectors they construct *themselves*. I directly supervised the work of graduate students and undergraduate students in detector and data acquisition development, and actively recruit the high school teachers and students participating in these research experiences.

The NSF Division of Physics repeatedly cites CROP as an exemplary initiative helping to meet its education and research charge. Stories on CROP appeared in *Physics Today*, *UNL's Patterns*, *Scarlet*, *Nebraska Magazine*, the *Daily Nebraskan*, and *Columns*, *The Lincoln Journal Star*,

several of the high school and local city newspapers close to participating schools, and been carried on all of our local news television and radio stations. *All Things Considered*, National Public Radio's afternoon news program, carried a story on CROP which was produced locally by Nebraska Public Radio and featured interviews with Claes, Snow, participating high-school students/teachers, and Nobel Prize winner James Cronin from the University of Chicago.

Underground Neutrino Observatory. A member of the Underground Neutrino Observatory's proto-collaboration since its inception, I served as Education and Outreach Coordinator.

Additional Professional Service

NSF Reviewer for Experimental Elementary Particle Program
 NSF Reviewer for Faculty Early Career Development Awards
 NSF Panel reviewer for ESIE Teacher
 Department of Energy HEP AARA Reviewer
 Manuscript reviewer for The Journal Fizika B
 Writer and reviewer for Educational Testing Services (Physics-GRE, Praxis) for over 6 years.
 University of Northern Iowa Fellow, Dean's Globalization Panel

Departmental Service:

Advanced Qualifying Exam Committee	Aug 1997 – Aug 2002
Colloquium Committee	Aug 1999 – Aug 2007
Physics' Chair Advisory Committee	Aug 2002 – Aug 2005
Chair of the Graduate Student Committee	Aug 2002 – Aug 2007
GAANN Committee	Aug 2006 –
Department Chair	Aug 2007 –
Department Advisory Committee, Chair	Aug 2007 –
Alumni Affairs Committee	Aug 2007 –
Publications Editor (<i>The Record</i>)	Aug 2007 –
Instruction Committee	Aug 2007 –
New Physics Building Steering Committee	Aug 2007 – Aug 2011
New Physics Building Art Committee	Aug 2007 – Aug 2012

College and University Service:

Elected Arts & Sciences representative to the University Committee on Grading Appeals
 2000-2002

Appointed as the College of Arts and Sciences representative to the University Curriculum Committee
 2001 - 2003

Department representative to *Constructing the Future*, UNL Senior Vice Chancellor for Academic Affairs Workshop on Teaching and Learning, May 12, 2004.

Teaching Experience :

- **1976-1983** Zion-Benton Township High School - physics and mathematics instructor
- **1980-1983** College of Lake County- part-time faculty, College Algebra, Microcomputers I & II
- Upon my arrival Zion-Benton Township High School physics enrollment stood under a dozen students. One year later that single section carried 30 students. By the time I left enrollment was

steady at two sections totaling 45-48 students. For the Mathematics Department I taught the full range (remedial math through pre-calculus) and served as Chair of Mathematics for 3 years.

- Established computer centers at Zion's two high school campuses; outlined, proposed, and developed curriculum; recommended hardware and wrote specifications for bid proposals. I followed this with inservice to Zion staff to integrate computer use throughout the curriculum.
- Taught College Algebra for the College of Lake County Department of Mathematics and Engineering Sciences and Microcomputers I & II for the Department of Continuing Education. I had the chance to work with older adults as well as conventional college-age students.
- At Northwestern I gave introductory laboratory lecture/demonstrations, as well as supervised and graded student lab work, for all semesters of introductory physics.

University Courses taught

Phys 115 Descriptive Physics

Spring 2007 (Enrollment: 120)	Fall 2007 (Enrollment: 126)
Fall 2008 (Enrollment: 87)	Fall 2009 (Enrollment: 77)
Fall 2010 (Enrollment: 87)	Fall 2011 (Enrollment: 78)

Phys 141 *Elementary General Physics I* (Algebra-based Mechanics)

Fall 1996 (112)	Spring 1998 (119)
Fall 1999 (103)	Fall 2000 (108)

Phys 142 *Elementary General Physics II* (Algebra-based Electricity & Magnetism)

Spring 1997 (87)	Fall 1998 (80)	Spring 1999 (80)
Spring 2002 – 2 sections (57) (83)		Fall 2003 (89)

Phys 462 *Atomic and Nuclear Physics* (senior level, physics majors)

Fall 2003 (Enrollment: 9)	Fall 2004 (9)	Fall 2013 (9)
Fall 2005 (6)	Fall 2006 (9)	

Phys 926 *Introduction to Particle Physics* (upper graduate level)

Fall 1997 (Enrollment: 11)	Spring 1999 (8)	Fall 2001 (9)
Spring 2003 (8)	Fall 2004 (17)	Spring 2006 (17)

Additional Teaching

Osha Lifelong Learning Institute: *How Things Work* January 28, 2013.

JumpStart! Bridging Program: E&M Waves/Optics, August 11-15, 2008 (pilot year).

E&M Waves/Optics, August 10-14, 2009
Advanced E&M, July 5-9, 2010
Advanced E&M, August 1-5, 2011

Physics 998 <i>Lecture on High Energy Physics</i>	March 27, 1998.	March 29, 2002.
	April 2, 1999.	April 18, 2003.
	February 16, 2001.	

<i>Lecture on Cosmic Ray Physics</i>	February 13, 2004.	November 10, 2006.
	February 25, 2005.	

High School Science Day: *Exploring Time* April 22, 1998.

Saturday Science <i>Electricity & Magnetism</i>	February 27, 1999.	February 10, 2007.
	February 26, 2000.	February 13, 2008.
	February 24, 2001.	February 21, 2009.
	February 16, 2002.	February 20, 2010.
	February 22, 2003.	February 19, 2011.
	February 14, 2004.	February 18, 2012.
	February 19, 2005.	February 16, 2013.
	February 18, 2006.	February 8, 2014.

Organized LPS Physics Teachers Inservice Day at UNL October 25, 1999.

Physics 201H	<i>Survey of High Energy Physics</i>	Dec 10, 1999.	Sept. 9, 2011.
	<i>Introduction to Cosmic Ray Physics</i>	Oct 5, 2001.	Oct. 15, 2004.
		Oct 18, 2002.	Oct. 13, 2006.

Physics 213	<i>Survey of High Energy Physics</i>	Dec 3, 2010
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Physics 261	<i>Introduction to Cosmic Ray Physics</i>	Apr 13, 2007.
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CROP Summer Research Workshop at UNL	Jul 17 – Aug 4, 2000.	July 18 – 22, 2005.
	Jun 18 – July 13, 2001.	Jun 11 – 14, 2007.
	Jul 15 – Aug 9, 2002.	July 14-15, 2008.
	Jun 23 – Aug 18, 2003.	June 23-24, 2009.
	Jun 21 – July 30, 2004.	

SALTA Workshop (Snowmass) Jul 17 – 19, 2001 (Aspen Center for Physics) July 4 – 9, 2004.

NATS Classroom Uses for the Oscilloscope Workshop, Oct. 28-29, 2004 (Fremont, NE).

NATS Classroom Uses for the Oscilloscope Workshop, Oct. 27-28, 2005 (Fremont, NE).

NATS ΔP -Building Momentum: Research Opportunities for Teachers at UNL, Oct. 10, 2008.

Workshops on teaching skills

First Person Physical Science: Wooing the 2nd Tier, UNL May 19, 2004.

Enterprise Diploma Workshop on New eGrade System, UNL Aug 21, 2001.

Summer Mastery Workshop on Uses of the Web, UNL May 17-May 21, 1999.

AAPT New Faculty Conference, College Park, MD Oct 30- Nov 3, 1997.

AAPT Project Kaleidoscope Workshop, UNL September 26-28, 1997.

Postdoctoral Scholars Supervised:

Aug 1997 – Dec 1997	Timothy Cox	now at UC-Davis (posted at CERN)
Aug 1998 – Aug 2001	Hurol Aslan	now at Hacettepe University, Turkey
Jan 2002 – Aug 2004	Carl Lundstedt	now CMS, Tier 2 at UNL
July 2002 – Dec 2006	Angela Bellavance	now with FNAL Computing Division
Sept 2009 –	Suvadeep Bose	on CMS posted at Fermilab's LPC
Apr 2011 – Aug 2012	Pratima Jindal	now a postdoc on CMS at Princeton

Advising

Graduate Thesis Advisor:

- Jason Keller** May 2006 – Aug 2013 (PhD with thesis on CMS)
Thesis: “*T-Tbar Production Cross Section Measurement in the Muon Plus Jets Channel Using Soft Electron Electron Tagging in pp Collisions at $\sqrt{s} = 8 \text{ TeV}$* ”
- J. Stephen Rosenboom** May 2004 - May 2006; now working as actuary, Omaha, NE
- Tan Jiawei** Aug 2004 - Aug 2005; followed fiancé to UIUC (Urbana-Champaign)
PhD candidate in Nuclear Engineering
- Vicki Mariupolskaya** MS in Physics, August 2002; followed spouse to UTexas@Austin
- Carl Lundstedt** graduated PhD in Physics, December 2001.
Thesis: “*A Search for Stop Squarks in p-pbar Collisions at $\sqrt{s}=1.8 \text{ TeV}$* ”

Graduate Supervisory Committee:

- Martin Hu** Physics graduated PhD, August 1998.
- Cory Strobe** CSCE graduated MS, December 2004.
Thesis: “*Parameterization of Cosmic Ray Showers*”
- Xiaoshu Xu** Statistics graduated December 2006.
Thesis: “*Probability Estimates of Cosmic Ray Showers: A Study of Accidental Coincidences*”
- Glen Groninger** Physics graduated December 2006.
- Ellen Day** Mechanical Engineering graduated May 2007.
- Dale Johnston** Physics graduated May 2010.
- Marisol Baquerizo** Teachers' College Current (PhD expected 2013).
- Kyle DeV Vaughan** Physics Current (PhD expected 2013).
- Lyrice Lucas** Teacher’s College (Physics Education Research)

Other graduate students supervised:

- Jun 03 - Dec 04 M.S. student Aidyl Galafa-Colon (Physics)
- Jan 02 - Aug 04 M.S. student Tracie Evans (Teachers College)
- Sep 02 - Dec 03 M.S. students Jared Kite, Steve Becker (CSCE)
- Summer 1998 Independent study student Dan Friedman, PHYS 996
Level-2 Port and Library Releases

Undergraduate research assistants directly supervised:

- Mar - May 2003 Ryan Schroeder, undergraduate Secondary Science Education project
“*Effect on PMTs of Orientation in the Earth's Magnetic Field*”
- Aug 03 - Dec 04 Anthony Heidtbrink, Independent PHYS 142H honor’s project
“*Efficiency of Large Cosmic Ray Detectors*”
- Aug 08 - Dane Oleson, working with Aaron Dominguez, pixel lab
- The following undergraduate students all worked on the NSF-funded CROP outreach project:*

- Brian Boyd May 1999 – Dec 2000
- Laurel Burk* June 2004 – May 2006
- Bill Catlett May 2000 – August 2001
- Shelby Clausen** May 2013 - **present**
- Bethany Cuttle* August 2005 – December 2006
- Matt Densberger Aug 2001 – Aug 2004
- Amanda Dillon Aug 1999 – Dec 1999
- Aaron Engel May 2009 – August 2010

Katie Everett* October 2000 - August 2005
 Andrea Fuscher* May 2001 – Aug 2004
 John Hao LPS summer student 2012
 Marina Hardy May 2009 – August 2009
 Keith Hartloff October 2008 - May 2009
Andrew House August 2013 - **present**
 Peter Jacobsen* May 2001 – Aug 2003
Erik Johnson January 2013 – **present**
Anirudda Joshi August 2013 - **present**
 Manizha Kholmatov LPS summer student 2011, 2012
 Jason Keller* February 2004 – Aug 2006
 Ethan Koopman September 2012 – May 2013
 Andy Kubik* October 2000 – Aug 2004
 Amanda Kruse Sept. 2006 – June 2009
 Estafania Larsen August 2009 – August 2011
 Sean Mahoney Jan 2003 – Dec 2003
 Ben Mattingly May 2009 – May 2010
 Caleb Mayfield October 2010 – May 2013
Savanna McDonald October 2010 – **present**
Neil Morrissette February 2014 – **present**
 Levi Neukirch* Sept 2004 – May 2007
Ankit Pant February 2014 – **present**
 Chantel Persing Summer 1997
 Phillip Power October 2010 – May 2013
 Paul Proski* Sept 2006 – August 2010
 Yidan Qin * January 2005 – May 2007
 Karl Richstatter May 1999 – Aug 2000
 Ian Robertson REU summer student 1999
 Jonathan Spurgeon January 2011 – August 2011
 Tim Struble Sept. 2006 – August 2011
 Sidhartha Suri May 2000 – Jan 2001
 Andy Warta May 2000 – May 2002
Ethan VanWinkle* October 2008 - **present**
 Jesse Zavadil PHYS 391 Summer student

*UCARE fellowship recipients

Presentations :

2013

1. *Comic Book Physics 101 – Lesson 3: The Flash (the Fastest Man Alive) and the ‘SpeedForce’*
Golden K Kiwanis Club, Lincoln, Nebraska (8 January 2013)
2. *Comic Book Physics 101 – Lesson 1: The Origin of Superman and Clues to the Planet Krypton*
Lincoln East Rotary Club, Lincoln, Nebraska (9 January 2013)
3. *Comic Book Physics 101 – Lesson 2: Radiation – Hulk, the X-men, and the Fantastic Four*
Northeast Sertoma Club, Lincoln, Nebraska (24 January 2013)

4. *Comic Book Physics 101 – Lesson 4: Superheroes Disassembled*
Golden K Kiwanis Club, Lincoln, Nebraska (19 February 2013)
5. *Comic Book Physics 101 – Lesson 1: Secret Origins of Superman, Fantastic Four, and X-men*
Southland Village Rehab Center, Lincoln, Nebraska (28 February 2013)
6. *So Just What the Heck is a Higgs Boson?*
Department Colloquium, The Big Red Experience, University of Nebraska (8 March 2013)
7. *What the Heck is a Higgs Boson?*
Lincoln Executive Club, Lincoln, Nebraska (18 March 2013)
8. *Comic Book Physics 101- Lesson 5: Hard Take-offs and Soft Landings*
Golden K Kiwanis Club, Lincoln, Nebraska (2 April, 2013)
9. *Are We Alone? The Fermi Paradox and Drake's Equation*
Westminster Presbyterian Church, Lincoln, Nebraska (23 April 2013)
10. *Comic Book Physics 101 – Lesson 1: The Origin of Superman and Clues to the Planet Krypton*
Falls City Rotary Club, Falls City, Nebraska (1 May 2013)
11. *Are We Alone? The Fermi Paradox and Drake's Equation*
Clear Creek High School, Evergreen, CO (06 May 2013)
12. *What the Heck is a Higgs Boson?*
Clear Creek High School, Evergreen, CO (06 May 2013)
13. *The Cosmic Ray Observatory Project*
Anslemo-Merna High School, Merna, NE (15 May 2013)
14. *Multijet Searches for New Physics at CMS*
Phenomenology 2013 Symposium, Pittsburgh, PA (May 2013).
(invited symposium talk by postdoc Suvadeep Bose)
15. *Recent Physics Results from CMS*
Brookhaven Forum 2013: Exploring Fundamental interactions in the Higgs Era
Brookhaven National Laboratory, NY, (May 2013).
(invited Plenary Talk by postdoc **Suvadeep Bose**)
16. *Supersymmetry: Considerations beyond the Standard Model* PIRE Summer Lecture Series,
Paul Scherrer Institute (04 June 2013)
17. *Are We Alone? The Fermi Paradox and Drake's Equation*
Southlake Village Rehab & Care Center, Lincoln, NE (05 November 2013)

18. *Comic Book Physics 101 – Lesson 4: Superheroes Disassembled*
Southeast Nebraska Library Association, Nebraska City, Nebraska (08 November 2013)
19. *Comic Book Physics 101- Lesson 5: Hard Take-offs and Soft Landings*
Southeast Nebraska Library Association, Nebraska City, Nebraska (08 November 2013)
20. *Comic Book Physics 101 – Lesson 1: The Origin of Superman and Clues to Planet Krypton*
Grand Lodge at the Preserve, Lincoln, Nebraska (21 November 2013)

2012

21. *The Cosmic Ray Observatory Project: a Statewide Outreach & Education Experiment*
APS April Meeting, Cosmic Ray Session, Atlanta, GA (March 31, 2012).
22. *Comic Book Physics 101*
Department Colloquium, Cleveland State University (15 February, 2012)
23. *Supersymmetry: Considerations beyond the Standard Model*
PIRE Summer Lecture Series, Paul Scherrer Institute (12 June 2012)
24. *What the Heck is a Higgs Boson?*
OSFest IV, Omaha, Nebraska (27 July 2012)
25. *Whatever Happened to the Faster-Than-Light Neutrinos?*
OSFest IV, Omaha, Nebraska (28 July 2012)
26. *Are We Alone? The Fermi Paradox*
OSFest IV, Omaha, Nebraska (28 July 2012)
27. *Comic Book Physics 101 – Part 1: Secret Origins*
OSFest IV, Omaha, Nebraska (28 July 2012)
28. Panel Discussion on *Space Law*
OSFest IV, Omaha, Nebraska (29 July 2012)
29. *Comic Book Physics 101 – Part 2: Superheroes Disassembled*
OSFest IV, Omaha, Nebraska (29 July 2012)
30. *Comic Book Physics 101 – Lesson 1: The Origin Superman and Clues to the Planet Krypton*
Golden K Kiwanis Club, Lincoln, Nebraska (02 October 2012)
31. *What the Heck is a Higgs Boson?*
Astronomy Education Workshop, University of Nebraska (6 October 2012)
32. *Comic Book Physics 101 – Lesson 1: The Origin Superman and Clues to the Planet Krypton*
Northeast Sertoma Club, Lincoln, Nebraska (01 November 2012)

- 33. *Comic Book Physics 101 – Lesson 2: Radiation – Hulk, the X-men, and the Fantastic Four*
Golden K Kiwanis Club, Lincoln, Nebraska (13 November 2012)
- 34. *Comic Book Physics 101, Parts 1 & 2*
Nebraska Citizens for Science, Lincoln, Nebraska (15 November 2012)

2011

- 35. *Jet Shapes in CMS* Boston Jet Physics Workshop Cambridge, MA (January 12-14, 2011).
Invited plenary talk by Suvadeep Bose
- 36. *Hard QCD Processes in CMS*
2011 Winter Conference on New Data from the Energy Frontier
Aspen, CO (February 13-18, 2011).
Invited plenary talk by Suvadeep Bose
- 37. *Dijet Angular Distribution and Search for Quark Compositeness in CMS*
US-CMS Meeting, Fermilab (Feb 25, 2011).
Suvadeep Bose.
- 38. *High Energy Physics' Window to the Cosmos*
Science Program for Gifted Students Norris Middle School (19 May 2011).
- 39. *Supersymmetry: Considerations beyond the Standard Model*
PIRE Summer Lecture Series, Paul Scherrer Institute (21 June 2011).
- 40. *Dijet Physics with CMS detector at the LHC*
Lepton Photon 2011 Mumbai, INDIA Aug 23, 2011.
(Poster, Suvadeep Bose).
- 41. *Jet Physics with CMS detector at LHC*
Indian Institute for Science Education and Research (IISER)
Mohali, Chandigarh, INDIA (Sept 8, 2011).
Invited seminar by Suvadeep Bose
- 42. *Jet Physics at CMS*
Manipal Advanced Research Group (MARG), Manipal University
Manipal, INDIA (Sept 13, 2011).
Invited seminar by Suvadeep Bose
- 43. *Dijet Physics results from CMS*
High Energy Nuclear and Particle Physics Group
Saha Institute for Nuclear Physics (SINP)
Kolkata, INDIA (Sept 15, 2011).
Invited seminar by Suvadeep Bose.
- 44. *Dijet Physics with CMS detector at LHC*

Indian Association for Cultivation of Science (IACS)
Kolkata, INDIA (Sept 16, 2011).
Invited seminar by Suvadeep Bose.

45. *Comic Book Physics 101*
WoPHYS2011: Conference for Women in Undergraduate Physics Research
University of Nebraska (21 October 2011).
46. *Search for New Physics in CMS with Dijets*
U.S. LHC Users Organization (USLUO) Meeting
Argonne National Laboratory (Nov 5, 2011).
Presentation by Suvadeep Bose.
47. *What the Heck is a Higgs Boson?*
Mathematics Department Colloquium
University of Nebraska (18 November 2011)

2010

48. *Commissioning and Analysis of Early Data with CMS: B-tagging & Vertexing*
EJTERM tutorial at the LPC, Fermi National Laboratory (5-9 Jan 2010)
Jason Keller.
49. *Jet Shapes in CMS*
Boston Jet Physics Workshop, Cambridge, MA (January 12-14, 2011).
Invited plenary talk by Suvadeep Bose.
50. *Hard QCD Processes in CMS*
2011 Winter Conference on New Data from the Energy Frontier
Aspen, CO (February 13-18, 2011).
Invited plenary talk by Suvadeep Bose.
51. *Comic Book Physics 101*
A daylong series of rotating 20-minute lessons teaching physics
inspired by iconic comic book characters and events.
National Free Comic Book Day Krypton Comics, Omaha (May 1, 2010)
52. *What do cosmic rays have to do with Toyota's acceleration problems?*
The Dave Rutherford Show (a nationally syndicated radio show out of Calgary, Alberta)
(March 25, 2010).
53. *Comic Book Physics 101*
Physics Week celebrating the dedication of Jorgensen Hall
(October 26, 2010).
54. *Measurement of Dijet Angular Distributions in pp collisions at $\sqrt{s}=7$ TeV*

US LHC Users Organization Meeting, Fermilab (October 28-30, 2010)
Poster presentation by Suvadeep Bose.

55. *b-Tagging Commissioning and Calibration Using Data at CMS*
Standard Model Benchmarks Workshop, Fermilab (19 November 2010)
Poster presentation by Jason Keller.

2009

56. *CROP Expansion Plans*
Creighton University, Omaha, NE (May 30, 2009).
57. *The High Energy Frontier: Particle Physics at UNL*
UNL Astronomy Camp, University of Nebraska, (July 14, 2009)
58. *ΔP Building Momentum: Research Opportunities for Science Teachers at UNL*
NATS Annual Fall Conference, Fremont, NE (Oct. 10, 2009).
59. *Strategies for b-Tagging Calibration Using Data at CMS*
European Physical Society HEP 2009 Conference Krakow, Poland (16-22 July 2009)
Poster presentation by Jason Keller.
60. *Tools for b-Tagging Validation and Soft Electron bJET Tagging in CMS*
Large Hadron Collider Physics Center Upgrade Workshop (29-30 October 2009)
Poster presentation by Jason Keller.
61. *Commissioning and Analysis of Early Data with CMS: B-tagging & Vertexing*
EJTERM tutorial at LPC, Fermi National Laboratory (5-9 Jan 2010) lead by Jason Keller.

2008

62. *ΔP Building Momentum: Research Opportunities for Science Teachers at UNL*
NATS Annual Fall Conference, Fremont, NE (Oct. 10, 2008).

2007

63. “Broader Impacts of Henderson DUSEL”, reverse site visit to DUSEL S3
Review Panel, NSF, Washington, DC (April 19, 2007).
64. “CROP, a Statewide Outreach and Education Experiment in Nebraska”, poster session at the
International Cosmic Ray Conference, Mérida, Yucatan, Mexico (July 4-5, 2007).
65. “Tevatron Searches for Higgs and Physics Beyond the Standard Model”,
Hadron Structure 07, Bratislava (September 2007).

2006

66. “Broader Impacts of Henderson DUSEL”, NSF Site Visit, CSU Denver Center, Denver, CO (March 29, 2006)
67. “Messages from Deep Space, Deep Underground”, *DAPT*, Denver University, Dever, CO (April 11, 2006)
68. “Messages from Deep Space, Deep Underground”, *Science Seminar Series*, University of Northern Iowa, Cedar Falls, IA (April 27, 2006)
69. “Hot Topics in High Energy Physics”, *Spring Recognition Banquet*, University of Northern Iowa, (April 28, 2006)
70. “Messages from Deep Space, Deep Underground”, LIGASE Workshop/SUNY DUSEL Capstone Workshop, S.U.N.Y. @ Stony Brook, Stony Brook, NY (May 4, 2006)
71. Broader Impact Committee Report, HUSEP Collaboration Meeting, S.U.N.Y. @ Stony Brook, Stony Brook, NY (May 4, 2006)
72. “Messages from Deep Space, Deep Underground”, *Physics Colloquium*, University of Nebraska, Lincoln, NE (August 24, 2006)
73. “Outreach Efforts with the Deep Underground Science and Engineering Laboratory (DUSEL)”, *NNN06 Next generation Nucleon decay and Neutrino detectors Conference*, Seattle, WA (September 23, 2006).
74. “Outreach Efforts with the Deep Underground Science and Engineering Laboratory (DUSEL)”, *NSTA Midwest Regional Conference*, Omaha, NE (October 20, 2006).
75. “CROP, a Statewide Outreach and Education Experiment in Nebraska” the joint *APS-DPF2006/JPS2006 Conference*, Honolulu (October 30, 2006).

2005

76. “Messages from Deep Space Deep Underground”, *DUSEL Engineering Mining Workshop*, Colorado School of Mines, Golden, CO (December 15, 2005)
77. “Messages from Deep Space Deep Underground”, *DUSEL Geophysics and Astrophysics Workshop*, Colorado State University, Fort Collins, CO (November 19, 2005)
78. “Education and Outreach Opportunities at Henderson DUSEL”, *DUSEL Geophysics and Astrophysics Workshop*, Colorado State University, Fort Collins, CO (November 19, 2005)
79. “High Energy Physics” Centennial High School, Utica, NE (November 10, 2005)

80. “Education and Outreach Opportunities at Henderson DUSEL”, *DUSEL Biology Workshop*, Colorado University, Boulder, CO (October 21, 2005)
81. “Cosmic Rays”, *World Year of Physics Einstein Lecture*, Lincoln Science Focus School (October 5, 2005)
82. “Nebraska’s Cosmic Ray Observatory Project”, The Conference on Teachers Research Experiences (Poster Session) Office of Marine Research University of Rhode Island, Narragansett Bay (April 24-27, 2005).
83. “The Higgs Mechanism”, *Weekly Mass Seminar*, University of Nebraska (April 15, 2005)
84. “Symmetries in Particle Physics”, *Weekly Mass Seminar*, University of Nebraska (April 8, 2005)
85. “Cosmic Rays”, *World Year of Physics Einstein Lecture*, ESU # 13, Scottsbluff, NE (February 9, 2005)

2004

86. “Update on Cosmic Ray Flux Measurements in the Henderson Mine”, UNO Collaboration Meeting, Denver, CO (November 18, 2004).
87. “The Henderson Mine Project” *Unification Day Workshop* Keystone, CO (October 14, 2004).
88. “Needles in a Haystack: Neutrinos Among the Cosmic Rays”, Henderson Mine, Empire, CO (September 29, 2004).
89. “The Henderson Mine Project”, *K-12 Education and Outreach through Research Workshop*, Aspen Center for Physics (July 8, 2004).
90. “Cosmic Ray Flux Measurements in the Henderson Mine”, HUSEP Executive Meeting Henderson Mine; Empire, CO (April 10, 2004).
91. “The Cosmic Ray Observatory Project: A Statewide Outreach and Education Experiment in Nebraska”, NAAPT Winter Meeting (March 6, 2004).
92. “Cosmic Ray Flux Measurements in the Henderson Mine”, UNO Collaboration Meeting Denver (February 12, 2004).
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98. "The Cosmic Ray Observatory Project: A Statewide Outreach and Education Experiment in Nebraska" Physics Department Colloquium, New Mexico State University, (September 27, 2002)
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