

Sridhara Rao Dasu

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Personal Data

Date of Birth: August 25, 1961 in Hyderabad, India
Nationality: United States (Naturalized)

Education

1988 Ph. D. Physics, University of Rochester, Rochester, NY
(Thesis Advisor: Prof. Arie Bodek)
1983 M. Sc. Physics, University of Hyderabad, Hyderabad, India
1981 B. Sc., Nizam College (Osmania University), Hyderabad, India

Positions Held

2017 – Present Chair, Department of Physics, University of Wisconsin-Madison
2010 – Present Full Professor, University of Wisconsin-Madison
2006 – 2009 Associate Professor, University of Wisconsin-Madison
2000 – 2005 Assistant Professor, University of Wisconsin-Madison
2000 – 2000 Associate Scientist, University of Wisconsin-Madison
1992 – 1999 Assistant Scientist, University of Wisconsin-Madison
1988 – 1992 Research Associate, Stanford Linear Accelerator Center
1983 – 1988 Research/Teaching Assistant, University of Rochester

Honors

2016 Adjunct Professor, Tata Institute of Fundamental Research, Mumbai, India
2012 Elected Fellow of American Physical Society
2012 Vilas Associate, University of Wisconsin
1988 David Dexter Prize, University of Rochester, New York
1981 University Merit Scholarship, University of Hyderabad, India
1979 National Merit Scholarship, Nizam College, India

Collaborations

1993 – now CMS experiment at CERN – High Energy Proton-Proton Collisions
1997 – 2010 BaBar experiment at SLAC – e^+e^- Annihilations at Upsilon(4S)
1992 – 1997 ZEUS experiment at DESY – High Energy Electron-Proton Collisions
1992 – 1993 SDC experiment at SSC Laboratory – High Energy Proton-Proton Collisions
1988 – 1992 SLD experiment at SLAC – e^+e^- Annihilations at Z^0
1985 – 1992 E140 experiment at SLAC – Measurement of R in Deep Inelastic Scattering
1985 – 1988 E141 experiment at SLAC – Search for Short Lived Axions in Beam Dump

Professional Activities

Collaboration Management Responsibilities

| | |
|----------------|---|
| 2018 – present | USCMS Level-3 Manager of CMS L1 Calorimeter Trigger Upgrade |
| 2016 – 2018 | Member, CMS Career Committee |
| 2014 – 2016 | Chair of US CMS Collaboration |
| 2014 – 2016 | Member of CMS Management & Collaboration Boards |
| 2012 – 2013 | Co-convener of the Higgs to Taus group of CMS |
| 2012 – 2014 | Trigger and Data Acquisitions Resource Manager |
| 2010 – 2011 | Upgrade Physics Coordinator for CMS |
| 2008 – 2009 | Co-convener of the Electroweak Physics group of CMS |
| 2005 – 2007 | Co-convener of the Online Selection group of CMS |
| 2005 – Present | Manager of the CMS Tier-2 Computing Center at Wisconsin |
| 2003 – 2010 | Head of the Technical Board of the Grid Laboratory Of Wisconsin |
| 1998 – Present | USCMS Level-3 Manager of CMS L1 Calorimeter Trigger System |

Community and Collaboration Service

| | |
|----------------|---|
| 2019 – present | Co-chair, CMS Career Committee |
| 2019 – present | Member, CMS Authorship Committee |
| 2007 – 2015 | Member, US LHC Users Organization Executive Committee |
| 2004-07, 13-16 | Member, LHC Physics Center Advisory Board |
| 2007 – 2009 | Member, US CMS Institutional Advisory Board |
| 2003 – 2007 | Chair, USCMS Advisory Software & Comp. Board |
| 2000 – 2003 | Member, USCMS Advisory Software & Comp. Board |
| 2001 – 2002 | Chair, SLAC Users Organization Executive Committee |
| 2000 – 2003 | Member, SLAC Users Organization Executive Committee |

Publications

Prof. Dasu is an author of over a thousand papers published in peer-reviewed journals by BaBar, CMS, SLD, ZEUS and fixed target experiments at SLAC. Recently >150 publications per year are made, of which ~10 per year have direct scientific involvement. For complete list and citations, ... see:

http://inspirehep.net/search?ln=en&ln=en&p=find+a+dasu+and+ps+published&of=hcv&action_search=Search&sf=&so=d&rm=&rg=25&sc=0

Selected Publications (those with significant direct contributions)

1. CMS Collaboration, “Search for W boson decays to three charged pions”, [JHEP 1905 \(2019\) 210](#).
2. CMS Collaboration, “Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two muons and two b quarks in pp collisions at $\sqrt{s}=13$ TeV”, [10.1016/j.physletb.2019.06.021](#)

3. CMS Collaboration, “Combined measurements of Higgs boson couplings in proton–proton collisions at $\sqrt{s}=13$ TeV”, [Eur.Phys.J. C79 \(2019\) no.5, 421](#).
4. CMS Collaboration, “Performance of reconstruction and identification of tau leptons decaying to hadrons and tau-neutrino in pp collisions at $\sqrt{s} = 13$ TeV”, [JINST 13 \(2018\) no.10, P10005](#).
5. CMS Collaboration, “Search for dark matter produced in association with a Higgs boson decaying to two photons or two taus at $\sqrt{s}=13$ TeV”, [JHEP 1809 \(2018\) 046](#).
6. CMS Collaboration, “Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at $\sqrt{s}=13$ TeV via Higgs boson decays to tau”, [JHEP 1906 \(2019\) 093](#).
7. CMS Collaboration, “Measurement of the pp to ZZ production cross section at $\sqrt{s}=13$ TeV with the Run 2 data set”, [CMS-PAS-SMP-19-001](#).
8. CMS Collaboration, “Observation of the Higgs boson decay to a pair of τ leptons with the CMS detector”, [Phys. Lett. B 779 \(2018\) 283-316](#).
9. CMS Collaboration, “Reconstruction and identification of τ lepton decays to hadrons and ν_τ at CMS”, [JINST 11 \(2016\) no.01, P01019](#).
10. CMS Collaboration, “Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into τ leptons in pp collisions at $\sqrt{s}=8$ TeV”, [JHEP 1601 \(2016\) 079](#).
11. CMS Collaboration, “Searches for a heavy scalar boson H decaying to a pair of 125 GeV Higgs bosons hh or for a heavy pseudoscalar boson A decaying to Zh, in the final states with $h\rightarrow\tau\tau$ ”, [Phys.Lett. B755 \(2016\) 217-244](#).
12. CMS Collaboration, “Search for single production of scalar leptoquarks in proton-proton collisions at $\sqrt{s}= 8$ TeV”, [Phys.Rev. D93 \(2016\) no.3, 032005](#).
13. CMS Collaboration, “Search for lepton-flavour-violating decays of the Higgs boson”, [Phys.Lett. B749 \(2015\) 337-362](#)..
14. CMS Collaboration, “Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions”, [JHEP 10 \(2014\) 160](#).
15. CMS Collaboration, Evidence for the direct decay of the 125 GeV Higgs boson to fermions, [Nature Phys. 10 \(2014\)](#)
16. CMS Collaboration, Measurement of the properties of a Higgs boson in the four-lepton final state, [Phys. Rev. D 89 \(2014\) 092007](#)
17. CMS Collaboration, “Study of the Mass and Spin-Parity of the Higgs Boson Candidate via Its Decays to Z Boson Pairs”, [PRL 110 \(2013\) 081803](#).
18. CMS Collaboration, Search for a standard-model-like higgs boson with a mass up to 1 TeV, Submitted for publication, [Eur. Phys. J. C 73 \(2013\) 2469](#).
19. CMS Collaboration, “Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC”, [Phys.Lett. B716 \(2012\) 30-61](#).
20. CMS Collaboration, “Search for neutral Higgs bosons decaying to tau pairs in pp collisions at $\sqrt{s}=7$ TeV”, [Phys. Lett. B 713 \(2012\) 68-90](#).
21. CMS Collaboration, “Search for the standard model Higgs boson in the $H\rightarrow ZZ\rightarrow l^+l^-\tau^+\tau^-$ decay channel in pp collisions at $\sqrt{s}=7$ TeV”, [J. High Energy Phys. 03 \(2012\) 081](#).
22. CMS Collaboration, “Search for the standard model Higgs boson in the decay channel $H\rightarrow ZZ\rightarrow 4l$ in pp collisions at $\sqrt{s}= 7$ TeV”, [Phys. Rev. Lett. 108 \(2012\) 111804](#).
23. CMS Collaboration, “Rates of Jets Produced in Association with W and Z Bosons production in pp collisions at $\sqrt{s} = 7$ TeV”, [J. High Energy Phys. 01 \(2012\) 010](#).

24. CMS Collaboration, “*Search for Neutral MSSM Higgs Bosons Decaying to Tau Pairs in pp Collisions at $\sqrt{s} = 7 \text{ TeV}$* ”, Phys. Rev. Lett. **106**, 231801, 2011
25. CMS Collaboration, “*Measurement of the Inclusive Z Cross Section via Decays to Tau Pairs in pp Collisions at $\sqrt{s} = 7 \text{ TeV}$* ”, J. High Energy Phys. **08** (2011) 117
26. CMS Collaboration, “*Performance of τ -lepton reconstruction and identification in CMS*”, J. Instrum. **7** (2012) P01001
27. CMS Collaboration, “*Measurement of the Inclusive Z Cross Section via Decays to Tau Pairs in pp Collisions at $\sqrt{s} = 7 \text{ TeV}$* ”, J. High Energy Phys. **08** (2011) 117
28. CMS Collaboration, “*Search for First Generation Scalar Leptoquarks in the $evjj$ Channel in pp Collisions at $\sqrt{s} = 7 \text{ TeV}$* ”, Phys. Lett. **B 703** (2011) 246-266
29. CMS Collaboration, “*Measurement of $W\gamma$ and $Z\gamma$ production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$* ”, Phys.Lett. **B701**, 535-555, 2011
30. CMS Collaboration, “*Search for Neutral MSSM Higgs Bosons Decaying to Tau Pairs in pp Collisions at $\sqrt{s} = 7 \text{ TeV}$* ”, Phys. Rev. Lett. **106**, 231801, 2011
31. CMS Collaboration, “*Measurement of the Isolated Prompt Photon Production Cross Section in pp Collisions at $\sqrt{s} = 7 \text{ TeV}$* ”, Phys. Rev. Lett. **106**, 082001, 2011
32. CMS Collaboration, “*Measurements of Inclusive W and Z Cross Sections in pp Collisions at $\sqrt{s} = 7 \text{ TeV}$* ”, JHEP **1101**, 080, 2011
33. CMS Collaboration, “*Search for Pair Production of First-Generation Scalar Leptoquarks in pp Collisions at $\sqrt{s} = 7 \text{ TeV}$.*”, Phys. Rev. Lett. **106**, 201802, 2011
34. CMS Collaboration, “*Search for Pair Production of Second-Generation Scalar Leptoquarks in pp Collisions at $\sqrt{s} = 7 \text{ TeV}$.*”, Phys. Rev. Lett. **106**, 201803, 2011
35. BaBar Collaboration, “*Search for the Rare Decay $B \rightarrow K \nu \nu$* ”, Phys. Rev. **D82**, 112002, 2010
36. BaBar Collaboration, “*Direct CP, Lepton Flavor and Isospin Asymmetries in the Decays $B \rightarrow K^* l^+ l^-$* ”, Phys. Rev. Lett. **102**, 091803 (2009)
37. BaBar Collaboration, “*Angular Distributions in the Decays $B \rightarrow K^* l^+ l^-$* ”, Phys. Rev. **D79**, 031102 (2009)
38. CMS Collaboration, “*Performance of the CMS Level1 Trigger during Commissioning with Cosmic Ray Muons and LHC beams*”, J. Instrum. **5** (2010) T03002
39. CMS Collaboration, “*Commissioning of the CMS High-Level Trigger with Cosmic Rays*”, J. Instrum. **5** (2010) T03005
40. CMS Collaboration, “*The CMS experiment at the CERN LHC*”, JINST **0803**, S08004 (2008)
41. CMS Collaboration, “*CMS Physics Technical Design Report, Vol. 2*”, CERN/LHCC 2006-021 (2006), J. Phys. G: Nucl. Part. Phys. **34** (2007) 995-1579
42. CMS HLT Group, “*The CMS high level trigger*”, Euro. Phys. J. **C46**, 605 (2006)
43. CMS Collaboration, “*CMS Physics Technical Design Report, Vol. 1*”, CERN/LHCC 2006-001 (2006)
44. BaBar Collaboration, “*Search for Radiative Penguin Decays $B^+ \rightarrow \rho^+ \gamma$, $B^0 \rightarrow \rho^0 \gamma$, and $B^0 \rightarrow \omega^0 \gamma$* ”, Phys. Rev. Letters **94**, 011801 (2005)
45. CMS Collaboration, “*The Computing Project - Technical Design Report*”, CERN/LHCC 2005-023 (2005)
46. BaBar Collaboration, “*Measurements of the $B \rightarrow X_s \gamma$ branching fraction and photon spectrum from a sum of exclusive final states*”, Phys. Rev. **D72** (2005) 052004

47. BaBar Collaboration, “*Measurement of branching fractions, and CP and isospin asymmetries, for $B^0 \rightarrow K^* \gamma$,*”, *Phys. Rev.* **D70**, 112006 (2004)
48. S. Dasu [CMS Collaboration], “*CMS Trigger And Event Selection*”, *Eur. Phys. J.* **C4S1**, 09 (2002)
49. BaBar Collaboration, “*The BaBar Detector*”, *Nucl. Instrum. Meth. A* 479, 1 (2002)
50. CMS Collaboration, “*The Trigger and Data Acquisition Project, Volume II: The High Level Trigger and Data Acquisition - Technical Design Report*”, CERN/LHCC 2002-026 (2002)
51. CMS Collaboration, “*The Trigger and Data Acquisition Project, Volume I: The Level-1 Trigger - Technical Design Report*”, CERN/LHCC 2000-038 (2000)
52. ZEUS Collaboration, “*Measurement of the F_2 structure function in deep inelastic ep scattering using 1994 data from the ZEUS detector at HERA*”, *Z.Phys.* **C72** (1996) 399-424
53. ZEUS Collaboration, “*Measurement of the proton structure function F_2 at low x and low Q^2 at HERA*”, *Z.Phys.* **C69** (1996) 607-620
54. CMS Collaboration, “*The Compact Muon Solenoid - Technical Proposal*”, CERN/LHCC 94-38 (1994)
55. SLD Collaboration, “*Performance of the SLD barrel CRID during the 1992 physics data run*”, *IEEE Trans.Nucl.Sci.* 40 (1993) 589-592
56. R. C. Walker, et al., “*Measurements of the proton elastic form-factors at SLAC*”, *Phys. Rev.* D49 (1994), p.5671.
57. S. Dasu, et al., “*Measurement of kinematic and nuclear dependence of $R=\sigma_L/\sigma_T$ in deep inelastic electron scattering*”, *Phys. Rev.* D49 (1994), p.5641
58. SLD Collaboration, “*First measurement of the left-right cross-section asymmetry in Z boson production by $e^+ e^-$ collisions*”, *Phys.Rev.Lett.* **70** (1993) 2515-2520
59. L.W. Whitlow, et al., “*Precise measurements of the proton and deuteron structure functions from a global analysis of the SLAC deep inelastic electron scattering cross sections*”, *Phys. Lett.* **B282** (1992), p.475
60. L.W. Whitlow, S. Rock, A. Bodek, S. Dasu and E. M. Riordan, “*A precise extraction of $R=\sigma_L/\sigma_T$ from a global analysis of the SLAC deep inelastic $e-P$ and $e-D$ scattering cross sections*”, *Phys. Lett.* **B250** (1990), p.193.
61. R.C. Walker, et al., “*Measurement of the proton elastic form-factors*”, *Phys. Lett.* **B224** (1989), p.353.
62. S. Dasu, et al., “*Precision measurement of $R=\sigma_L/\sigma_T$ and F_2 in deep inelastic electron scattering*”, *Phys. Rev. Lett.* **61** (1988), p.1061.
63. S. Dasu, et al., “*Measurement of the difference in R and F_2 in deep inelastic $e-D$, $e-Fe$ and $e-Au$ scattering*”, *Phys. Rev. Lett.* **60** (1988), p.2591.
64. E.M. Riordan, et al., “*A search for short lived axions in an electron beam dump experiment*”, *Phys. Rev. Lett.* **59** (1987), p.755.

Technical Reports

Member of the Editorial Board: “CMS. The TriDAS project.” Technical Design Report, Vol 1: The Trigger CERN-LHCC-2000-038

Co-editor: “Proceedings of the DIS2005.” AIP 792, ISBN 0-7354-0283-3.

Member of the Editorial Board: “Technical Proposal for the Upgrade of the CMS detector through 2020” CERN-LHCC-2011-006

Invited Presentations, Colloquia and Seminars

Conferences

1. *Studies of the Higgs Boson at the LHC*, IMHEP 2019, Bhubhaneswar, India.
2. *Trigger and DAQ for Hadron Collider Physics*, Princeton Workshop on Triggers, January 2018, Princeton, NJ.
3. *Opportunities and Challenges at the Energy Frontier*, New Technologies for Discovery III: The 2017 CPAD Instrumentation Frontier Workshop, November 2017, Albuquerque, NM.
4. *Reprise after the SLAC-MIT Experiments*, Arie Bodek Symposium, October 2017, Rochester, NY.
5. *BSM Higgs Review*, DAE-BRNS Symposium, December 2016, New Delhi, India.
6. *Invisible and rare decays of the Higgs Boson*, Higgs Couplings 2016, November 2016, Stanford, CA.
7. *Flavor at High PT Frontier*, International Conference on Supersymmetry, SUSY2015, August 2015, Lake Tahoe, CA.
8. *Heavy Flavor Results from CMS*, International Conference on Supersymmetry, SUSY2015, August 2015, Lake Tahoe, CA.
9. *What's Next at the LHC in Higgs Physics*, Symposium on What's Next at LHC, January 2014, TIFR, Mumbai, India.
10. *Dark Matter Searches at the LHC*, SERC School on High Energy Physics, December 2013, IIT, Chennai, India.
11. *From an Idea to Higgsteria*, Public Talk, Wisconsin Festival of Ideas 2013, Madison, WI.
12. *Recent Results on Higgs Physics from CMS*, SUSY 2013, September 2013, Trieste, Italy.
13. *Exploring the Higgs Sector*, DAE Symposium on High Energy Physics, January 2013, Shanti Niketan, India.
14. *Beyond the SM Higgs*, Workshop on LHC Physics, November 2012, Chicago, Illinois.
15. *CMS Physics Results in Tau Final States*, Workshop on LHC Physics, May 2012, Chicago, Illinois.
16. *Beyond the SM Higgs*, Moriond EWK, March 2012, La Thuile, Italy.
17. *Using Vector Bosons to Probe QCD at LHC*, Workshop on Quarks, Gluons and Hadrons at LHC, August 2011, Mumbai, India.
18. *Latest Results from CMS at LHC*, Lake Louise Winter Institute in Particle Physics, February 2011, Lake Louise, Canada.
19. *Rare B decays using BaBar*, Workshop on Synergy between Energy and Luminosity Frontiers, SEL2011, January 2011, TIFR, Mumbai, India
20. *Establishing the Standard Model at LHC*, Workshop on Synergy between Energy and Luminosity Frontiers, SEL2011, January 2011, TIFR, Mumbai, India
21. *LHC Status and Its Physics Potential*, DAE-BRNS Symposium on High Energy Physics, December 2008, Varanasi, India.
22. *Rapid-response Adaptive Computing Environment for CMS*, International Conference on Computing in High Energy and Nuclear Physics, September 2007, Victoria, Canada.
23. *CMS Status and HLT Exercise*, CERN Theory Workshop, August 2007, CERN, Geneva,

Switzerland.

24. *Standard Model Higgs at LHC*, 2007 Aspen Winter Conference: New Physics at the Electroweak Scale and New Signals at Hadron Colliders, January 2007, Aspen, CO.
25. *CMS Trigger Strategy*, West Coast LHC Theory Network, May 2006, San Diego, CA.
26. *Grid Laboratory Of Wisconsin and DISUN*, Condor Week, April 2006, Madison, WI.
27. *Contribution of Condor and GLOW to LHC*, International Conference on Computing in High Energy and Nuclear Physics, February 2006, Mumbai, India.
28. *Grid Laboratory Of Wisconsin (GLOW)*, Global Grid Forum Workshop on Campus Grids, Harvard University, September 2005, Cambridge, MA.
29. *Computing in High Energy Physics and its Relevance for Other Sciences*, Genomic Sciences Training Program, June 2005, Madison, WI.
30. *Challenges of LHC: Trigger*, 2005 Aspen Winter Conference: The Highest Energy Physics, Aspen, Colorado, February, 2005
31. *Use of Condor and GLOW for CMS Simulation Production*, CHEP'04, International conference on computing in high energy physics, Interlaken, Switzerland, Sep. 2004.
32. *Search for New Physics at B-Factories*, The 12th International Conference on Supersymmetry and Unification of Fundamental Interactions, Tsukuba, Japan, Jun 2004
33. *Grid Computing - A Primer* WiscNet Future Technologies Conference, Madison, WI, USA, April 2004
34. *Probing the Standard Model with Electroweak Penguin B Decays*, XXIII Physics in Collision, Zeuthen, Germany, June 26-28, 2003.
35. *Higgs Search At LHC*, IXth International Symposium on Particles, Strings and Cosmology, PASCOS '03, Mumbai, India, January 3-8, 2003
36. *Prospects for measurement of V_{td}/V_{ts} using of b to $s\gamma$ and $d\gamma$ at the B factories*, Workshop on the CKM Unitarity Triangle, Geneva, Switzerland, Feb 2002
37. *Physics at CMS Trigger and Event Filter Level*, III International Symposium on LHC Physics and Detectors, Chia, Sardinia, Italy, October 2001.
38. *Physics at B Factories*, Phenomenology Symposium, Madison, WI, April 2000.
39. *Physics at LHC*, Aspen Winter Conference on Particle Physics - Vistas on XXIst Century Particle Physics, Aspen, USA, January 16-22, 2000
40. *Search for new physics at LHC*, The Second International Conference on Physics beyond the Standard Model; Beyond the Desert'99 – Accelerator, Non-Accelerator and Space approaches into the Next Millenium, Tegernsee, Germany, Jun 6-12, 1999
41. *CMS Calorimeter Regional Trigger Prototypes*, LEB'99, Fifth Workshop on Electronics for LHC Experiment, Snowmass, USA, September, 1999.
42. *CMS/LHC Status and Physics Prospects*, Fermilab Users Meeting, July 1998.
43. *The Standard model physics from HERA*, Pheno-CTEQ Symposium 1998 - From non-perturbative QCD to new physics, Madison, Wisconsin, Mar 23-26, 1998.
44. *Event logging and distribution for the BaBar Online System*, CHEP'98, International conference on computing in high energy physics, Chicago, USA, September, 1998.
45. *The calorimeter trigger system for CMS detector*, CHEP'98, International conference on computing in high energy physics, Chicago, USA, September, 1998.
46. *Physics potential of CMS/LHC*, 4th International conference on physics potential and development of $\mu+\mu-$ colliders, San Francisco, California, Dec 10-12, 1997.
47. *High speed data processing for the CMS calorimeter trigger*, IEEE Nuclear Science Symposium, Albuquerque, New Mexico, November 1997
48. *Calorimeter trigger electronics for CMS detector at LHC*, CHEP'97, International conference on computing in high energy physics, Berlin, Germany, April, 1997.

49. *Extraction of the gluon density in proton from the ZEUS DIS cross section*, DPF'96, Minneapolis, Minnesota, Aug 10-15, 1996.
50. *CMS calorimeter trigger circuits*, Trigger electronics for capturing physics with CMS detector at LHC, DPF'96, Minneapolis, Minnesota, Aug 10-15, 1996.
51. *CMS level-1 calorimeter trigger*, International conference on computing in high energy physics, Rio de Janeiro, Brazil, September 18-22, 1995.
52. *Level-1 calorimeter trigger for LHC*, The fifth international conference on calorimetry in high energy physics, Brookhaven, New York, September 26-30, 1994.
53. *SDC level-1 calorimeter trigger*, International conference on computing in high energy physics, San Francisco, California, April 21-27, 1994.
54. *SDC level-1 calorimeter trigger*, The fourth international conference on calorimetry in high energy physics, La Biodola, Isola d'Elba, Italy, September 19-25, 1993.
55. *Study of nuclear effects in the deuteron and extraction of $R=\sigma_L/\sigma_T$* , The 4th conference on intersections between particle and nuclear physics, Tucson, Arizona, May, 1991.
56. *Measurement of kinematic and nuclear dependence of $R=\sigma_L/\sigma_T$* , International Europhysics conference on high energy physics, Uppsala, Sweden, June, 1987.
57. *Measurement of kinematic and nuclear dependence of $R=\sigma_L/\sigma_T$* , The 2nd Lake Louise winter institute on new frontiers in particle physics, Lake Louise, Canada, Feb. 1987.

Colloquia and Seminars:

1. What's Next at the LHC, Confronting the Dark and Unnatural Universe, January 2019, TIFR, Bombay, India.
2. What's Next at the LHC, Confronting the Dark and Unnatural Universe, January 2019, University of Hyderabad, India.
3. What's Next in Higgs Physics, November 2017, Boulder, CO.
4. Higgs Physics at the LHC, July 2017, Hyderabad, India.
5. Digital Electronics and Firmware Lectures, July 2017, TIFR, Bombay, India.
6. Introduction to CMS Trigger Electronics, July 2017, IIT Bombay, India.
7. CMS Trigger Upgrade for HL-LHC, April 2016, India-CMS Group.
8. What's Next at LHC, Seminar, January 2016, TIFR, Mumbai, India.
9. Trigger and DAQ for Hadron Collider Physics, Guest Lectures, TIFR, Mumbai, India
10. Shedding Light on the Mystery of Dark Matter, January 2016, TIFR, Hyderabad, India.
11. Lepton Flavor Violation in Higgs Sector, Seminar, July 2014, TIFR, Mumbai, India.
12. Discovery of the Higgs Boson, Public Lecture, July 2014, VJIT, Hyderabad, India.
13. Discovery of the Higgs Boson, Public Lecture, January 2014, IIIT, Hyderabad, India.
14. Understanding the Higgs Boson, Physics Colloquium, University of Rochester, NY.
15. Understanding the Higgs Boson, Physics Colloquium, Madison, WI.
16. Public Lecture, Wisconsin Festival of Ideas, University of Wisconsin, April 2013
17. Public Lecture, B. M. Birla Science Center, Hyderabad, India, January 2013
18. Colloquium, Indian Institute of Mathematical Sciences, Chennai, India, January 2013
19. Seminar, Tata Institute of Fundamental Research, Mumbai, India, January 2013
20. Public Lecture, University of Wisconsin, July 2012
21. Public Lecture, B.M. Birla Science Center, Hyderabad, India, December 2011
22. Seminar, Indian Institute of Mathematical Sciences, Chennai, India, December 2011
23. Public Lecture, The Harker School, San Jose, CA, September 2011
24. Colloquium, University of Wisconsin, Madison, WI, September 2011
25. Seminar, Indian Institute of Technology, Mumbai, India, January 2011
26. Seminar, Stanford Linear Accelerator Center, Menlo Park, CA, November 2010

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|---------------------|-------------------------------------|
| Dr. Cecile Caillol | Research Associate, CMS |
| Dr. Sascha Savin | Senior Scientist, CMS |
| Dr. Carl Vuosalo | Research Software Developer, CMS |
| Dr. Ajit Mohapatra, | Researcher (Physics Computing), CMS |
| Mr. Chad Seys | Software Engineer, UW |
| Mr. Dan Bradley, | Director of Computing, UW |
| Ms. Jes Tikalsky | Systems Software Developer, CMS |
| Mr. Ales Svetek | Firmware Developer, CMS |
| Mr. Marcelo Vicente | Firmware Developer, CMS |
| Mr. Tom Gorski, | Electronics Engineer, CMS |
| Mr. Robert Fobes, | Electronics Technician, CMS |

Past Postdoctoral Researchers and Professionals

| | |
|-----------------------------------|--|
| Dr. Bhawna Gomber | Assistant Professor, University of Hyderabad |
| Dr. Isobel Ojalvo | Assistant Professor, Princeton University |
| Dr. Pamela Klabbers, | Staff Scientist, Fermilab |
| Dr. Tapas Sarangi, CMS | Computing Services, Wisconsin |
| Dr. Maria Cepeda, CMS | Faculty, CIEMAT, Spain |
| Mr. Mathias Blake, CMS | Xilinx Corporation, California |
| Dr. Evan Friis, CMS | Google, California |
| Dr. Monika Grothe, CMS | Accenture, Zurich, Switzerland |
| Dr. Jonathan Efron, CMS | Industry, Minnesota |
| Dr. Francesca Di Lodovico, BaBar, | Professor, Queen Mary College, England. |
| Dr. Ajit Mohapatra, BaBar, | Researcher, University of Wisconsin |
| Dr. Maurizio Pierini, BaBar | Scientist, CERN |
| Dr. Kevin Flood, BaBar | Program Officer, Department of Energy, USA |
| Mr. Will Maier, | Computer Systems Engineer, Oregon |

List of Students

Current Undergraduate Students

| | |
|----------------------|-----------------|
| Mr. Cameron McDowell | BS Student, CMS |
|----------------------|-----------------|

Current Graduate Students

| | |
|----------------------------|----------------------|
| Mr. Abhishikth Mallampalli | PhD Student, CMS |
| Mr. Jithin M. Sreekala | PhD Student, CMS |
| Mr. James Buchanan | PhD Student, CMS |
| Mr. Usama Hussain | PhD Student, CMS |
| Mr. Evan Koenig | Research Intern, CMS |

Past Graduate Students

| | |
|-------------------|---|
| Dr. Tyler Ruggles | PhD (CMS) 2018, Res Assoc, Carnegie Institute, CA |
| Dr. Nick Smith | PhD (CMS) 2018, Res Assoc, FNAL, IL (advisor Prof. Smith) |

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|------------------------|--|
| Dr. Laura Dodd | PhD (CMS) 2018, Northrop Grumman, NY (advisor Prof. Smith) |
| Dr. Nate Woods | PhD (CMS) 2017, Accenture, Seattle, WA (advisor Prof. Smith) |
| Dr. Devin Taylor | PhD (CMS) 2017, Res Assoc, UC-Davis, CA |
| Dr. Tom Perry | PhD (CMS) 2016, Teacher, AZ (advisor Prof. Smith) |
| Dr. Aaron Levine | PhD (CMS) 2016, Accenture, San Diego, CA |
| Dr. Austin Belknap | PhD (CMS) 2015, Epic Systems, Wisconsin, (advisor Prof. Smith) |
| Dr. Isobel Ojalvo | PhD (CMS) 2014, Res Assoc, UW-Madison (advisor Prof. Smith) |
| Dr. Joshua Swanson | PhD (CMS) 2013, Intel, Oregon (advisor Prof. Smith) |
| Dr. Ian Ross | PhD (CMS) 2013, Researcher, Comp Sci, UW-Madison |
| Dr. Lindsey Gray, | PhD (CMS) 2012, Scientist, FNAL, IL |
| Dr. Michal Bachtis, | PhD (CMS) 2012, Faculty, UCLA, CA |
| Dr. Mike Anderson, | PhD (CMS) 2011, Industry, TX |
| Dr. Kira Grogg | PhD (CMS) 2011, Harvard Medical School (advisor Prof. Smith) |
| Dr. Marc Weinberg | PhD (CMS) 2011, Florida State, (advisor Prof. Smith) |
| Dr. Christos Lazaridis | PhD (CMS) 2011, CERN Fellow, (advisor Prof. Smith) |
| Dr. Jessica Leonard | PhD (CMS) 2011, DESY Fellow, (advisor Prof. Smith) |
| Dr. Carl Vuosalo, | PhD (BaBar) 2009, Researcher, Physics, UW-Madison |
| Dr. Jonathan Hollar, | PhD (BaBar) 2006, Belgium (advisor Prof. Prepost) |
| Dr. Ping Tan | PhD (BaBar) 2005, Researcher, University of Iowa |
| Dr. Andrew Eichenbaum | PhD (BaBar) 2004, Industry, CA (advisor Prof. Prepost) |

Past Masters Students

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| Ms. Ada Rubin | MS (Physics) 2004, PhD Student, Iowa State |
| Ms. Meghan O'Connell | MS (Physics Education) 2005 |
| Ms. Kendra Rand | MS (Physics Education) 2005 |
| Mr. Vishal Mehta | MS (EE/CS) 2007, Industry, Santa Clara, CA |
| Mr. Vivek Puttabuddhi | MS (EE/CS) 2005, Industry, Mountain View, CA |
| Mr. R. Gowrishankara Iyer | MS (EE/CS) 2004, Industry, Boston, MA |
| Mr. Rajesh Rajamani | MS (EE/CS) 2002, Industry, Palo Alto, CA |

Past Undergraduate Students

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|-------------------------|--|
| Mr. Evan Koenig | BS (Physics) 2019, Research Intern, Wisconsin |
| Mr. Marc Tost | BS (Physics) 2019, Graduate Student, UT-Austin |
| Mr. Pingchuan Zhang | BS (Physics) 2014, Graduate Student, Duke |
| Mr. Stephan Cooperstein | BS (Physics) 2014, PhD Princeton, Postdoc UCSD, CA |