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Education

- Ph.D in Experimental High Energy Particle Physics, University of Delhi, India, 1997.
  Thesis: Direct Photon Production in Hadron Induced Collisions.
- M.S. in Physics, University of Rajasthan, Jaipur, India, 1991.
- B.S. in Physics, St. Stephens College, Delhi, India, 1989.

Employment

- Professor, Northern Illinois University, DeKalb, IL, 2017 - present.
- Associate Professor, Northern Illinois University, DeKalb, IL, 2014 - 2017.
- Senior Research Scientist, Northern Illinois University, DeKalb, IL, 2011 - 2014.
- Research Scientist, Northern Illinois University, DeKalb, IL, 2001 - 2011.
- Research Associate, Brookhaven National Laboratory, Upton, NY, 2000 - 2001.
- Research Fellow, University of Rochester, Rochester, NY, 1997 - 2000.

Experience

- Director, Northern Illinois Center for Accelerator and Detector Development (2016-present).
- Level 3 Manager, Mu2e Experiment (2015-present).
- Co-Convenor, DUNE Photon Detector Consortium Photosensor Group (2017-present).
- Level 4 Manager, CMS Experiment (2017-present).
- Leader, NIU group on the CMS Experiment (2017-present).
- Leader, NIU group on the DUNE Experiment (2016-present).
- Member, DUNE Far Detector Technical Review Committee (2015).
- Institutional Representative, International Large Detector (2014-present).
- Technical Integration Manager, Proton Computed Tomography Detector Project (2012-2015).
- Principal Investigator, Fine-granularity Scintillator Calorimetry (2007-present).
- Spokesperson, Fermilab Test Beam Experiments T957 and T1006.
- Co-Leader, Silicon Detector Concept Hadron Calorimeter Group (2007-2008).
- Project Manager, Tail-catcher/Muon Tracker for a Linear Collider Detector (2004-2008).
- Test Beam Coordinator, American Working Group on LC Calorimetry.

- Member, CALICE Technical Board (2007-present).
- Convener, DØ New Phenomena Working Group (2001-2003).
- Co-Convener, DØ Jets and Missing E_T ID Group (2000-2002).
- Co-Convener, DØ Jets Subgroup for Higgs/Top (2000-2001).
- Member, DØ Calorimeter Monte Carlo Group (1998-2000).
- Member, DØ Run IIb Trigger Task Force.
- Member, DØ Calorimeter Algorithms Task Force.
- Member, DØ and CALICE Analysis Editorial Boards.
- Reviewer, Technical Publications.
- Reviewer, Small Business Innovation and Technology Transfer Research Proposals.
- Graduate and Undergraduate Teaching.
- Mentorship of Graduate and Undergraduate Students.

Grants

Peer Reviewed:

- PI, Searches for New Phenomena with Leptons, NSF, $840k, (2015-2018).
- PI, Design and Prototyping of a High Granularity Scintillator Calorimeter, DoE, $335k, (2009-2012).
- PI, Particle Flow Algorithm Development, DoE/NSF, $150k, (2009-2012).
- PI, Design and Prototyping of Scintillator-based Hadron Calorimeter for the ILC Detector, DoE/NSF, $295k, (2004-2008).
- Co-PI, Searches for New Phenomena with High Energy Particle Colliders, NSF, $874k, (2012-2015).
- Co-PI, Searches for New Phenomena with High Energy Particle Colliders, NSF, $1M, (2009-2012).
- Co-PI, Development of Extruded Scintillator and Single-bit Tracking Calorimetry, DoE, $200k, (2003-2006).

Project Funding

- co-PI, Mu2e Experiment, Fermilab, $501.4k, (2014-present).
- PI, DUNE Experiment, Brookhaven National Lab, $253.5k, (2016-present).
- PI, CMS Experiment, Fermilab, $113.5k, (2017-present).

Patents

- High Performance Computing for Three Dimensional Proton Computed Tomography (2014).
- Concave Compensated Cell for the Collection of Radiated Light (2011).

Awards

- NIU's Excellence in Innovation Award (2015).
- NIU's Supportive Professional Staff Presidential Award for Excellence (2007).

Graduate Student Supervision

- Thesis Supervisor:

  Radiation Damage in Hamamatsu Multi-pixel Photon Counters, J. Kalnins, M.S., 2017.

  Evaluation of an Integrated Readout Layer For Use in a Highly Granular Analog Hadron Calorimeter Layer, H. LeFevre, M.S., 2016.

  Simulation of the Propagation of Light in Small Scintillator Cells, A. Lee, M.S., 2009.

  High Resolution 2D Scanning for Scintillator Characterization, J. Powell, M.S., 2008.

- Significant Supervisory and/or Advisory Role:

  A Measurement of WZ Production in Proton-Proton Collisions at $\sqrt{s} = 7TeV$ with ATLAS Detector and Combination of the ATLAS and CMS $\sqrt{s} = 7TeV$ ZZ Anomalous Triple Gauge Coupling Measurement, S. Cole, Ph.D., 2014.

  The Construction of a Fiber Tracking System for a Proton Computed Tomography Device, V. Zvoda, M.S., 2014.

  Simulation, Hardware Characterization, Analysis and Assembly of the Fiber Trackers for the Proton Computed Tomography Scanner, A. Gearhart, M.S., 2013.

  Evaluation of an Integrated Readout Layer Prototype, F. Abu-ajamieh, M.S., 2011.

  Results of Beam Tests of a Prototype Calorimeter for a Linear Collider, K. Francis, Ph.D., 2010.

  Evaluation of a Clustering Algorithm for the Electromagnetic and Hadronic Sections of a Calorimeter for the International Linear Collider, R. McIntosh, M.S., 2007.

  Anomalous $gt\bar{t}$ Coupling in Single Lepton $t\bar{t}$ Channel from $p\bar{p}$ Collisions at $\sqrt{s} = 1.96TeV$, K. Chan, Ph.D., (2005).

  Search for First Generation Leptoquarks in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96TeV$ in the Dielectron + Dijet Channel with the DØ Detector at Fermilab, S. Fu, Ph.D., (2004)

Departmental Committees

- Chair, Colloquium Committee, (2015-16).
- Member, Department Executive Committee, (2016-17)
- Member, Doctoral and Masters Dissertation Committees.

Research Summary

My doctoral work, direct photon production in hadronic interactions, was done on the Fermilab fixed target experiment E706. I have acquired a wide range of experience and expertise during my post-doctoral years ranging from work on large collider experiments like DØ at Fermilab and ATLAS at CERN to cutting-edge research and development efforts on calorimetry in the context of a Linear Collider to the construction of a detector system for proton computed tomography. Current research preoccupations include Mu2e, DUNE and CMS, all key components of the US High Energy Physics program.

E706

On E706, I played a leadership role in the measurement of the direct photon production cross section for 530 and 800 GeV/c pion and proton beams. These high precision direct photon production data, useful in the determination of the gluon distribution function at high-x, have been published in refereed journals such as PRL and PRD, have pointed the importance of intrinsic transverse momentum effects at intermediate energies and catalyzed serious theoretical effects for resummation of soft gluon emission effects to account for them. In the process acquired extensive experience with electromagnetic shower reconstruction in LAr calorimeters, measured the offline time- dependent pedestals for the liquid argon calorimeter data, defined and studied cuts to eliminate bremstrahllung photons from muons in the candidate direct photon sample, modeled the data trigger response in the Monte Carlo simulation, contributed to an improved understanding and determination of the data and Monte Carlo energy scales, calculated efficiencies for the detection and reconstruction of pizero, etas and direct photons and estimated the background to the direct photon signal from the mesons.

DØ

On DØ, I had been an active participant in the software upgrade and physics analysis of the experiment as it proceeded into Run II. My work with Columbia University graduate student S. Fu, on first generation scalar leptoquark searches provided the most stringent limits on their production at the time of its publication. Furthermore, as head of the New Phenomena working group, I was responsible for stewardship and oversight of many Run II searches, formulation and direction of high priority analysis tasks and the development of shared analysis tools which were used by numerous searches like leptoquark, RPV dilepton and trilepton searches to name a few. Before these SUSY searches, I had taken a leadership role in analyzing early data and was the first to sift out dijet, W and Z signals from the Run II calorimeter data. The Jets and Missing Et ID Group under my leadership developed, maintained and optimized offline and trigger algorithms and provided certified jets and missing Et objects for the whole collaboration. During my significant involvement with the calorimeter Monte Carlo group verified calorimeter geometry in the simulator, provided digitization of calorimeter hits inside GEANT, did extensive studies of the hadronic response of the DØ calorimeter to better understand compensation, resolution and systematics of different hadronic generators and determined the sampling weights which are used to this day in both Monte Carlo and data reconstruction. Maintained, updated and extended the calorimeter data packing and unpacking. Also pointed the way to a more powerful and efficient H-Matrix, studied Level 3 electron/photon discrimination, applied neural network techniques, with success, to a variety of problems ranging from electron position resolution to rejection of backgrounds to electrons and established the possibility of using eta meson mass to set an em-scale without the use of tracking. Apart from code and algorithm development the emphasis had been to study the impact of the Run II detectors and environment on the physics. In this regard studied the effects of pileup and baseline subtraction on calorimeter energy mass and missing Et resolution, clarified the essential role of the preshower detectors in recovering electron/photon energy resolution and gamma/pizero separation and was involved with the redesign of the Run IIb calorimeter trigger at Level 1.

LC Calorimetry

For the Linear Collider to fulfill its physics potential, unprecedented performances in jet and missing energy measurements will be required of the calorimetric system. I have taken a leadership role in carrying out and directing prototyping, simulation and algorithmic studies in response to these challenges. On the hardware front I have been directing NIUs R&D effort on a finely segmented scintillator hadron calorimeter, which capitalizes on the marriage of a proven detection technique with novel solid-state photodetectors called Silicon Photomultipliers (SiPM). Prototype scintillator cells of various shapes, sizes, thicknesses, surface treatments and fiber groovings were machined and evaluated together with fibers of different shapes, dimensions and optical treatments to carry out comprehensive studies of cell processing, light response, response uniformity, efficiency, crosstalk, aging and radiation hardness. SiPMs were characterized in detail by studying their operating bias voltage, dark rate, linearity of response, temperature dependence, stability, radiation hardness and immunity to magnetic fields. The results of these DoE/NSF funded detector R&D efforts have been published and provided us a solid base, in collaboration with our European colleagues, to proceed towards

the construction of test beam prototypes. Consequently, a hadron shower imager took beam at CERN and Fermilab over an extended period of time as part of the CALICE test beam program. The hadron shower imager physically consists of two devices; a hadron calorimeter and a tail-catcher/muon tracker (TCMT). Both devices use SiPMs with embedded WLS fiber. NIU has been intimately involved with the design, optimization, construction, commissioning and operation of both these devices and in fact had responsibility for one of them (TCMT). I led the team of physicists, students, technicians and engineers that delivered this fully instrumented, 10-ton test beam prototype on time. The analysis of data collected during these test beam campaigns has been published in a number peer reviewed journals. In parallel with these large test beam efforts, pioneering studies into direct or fiberless coupling of scintillator and sensor have been carried out and were used to develop the novel concept of an integrated readout layer (IRL). This is a critical step in fully realizing fine-granularity scintillator calorimetry. It has been realized by numerous groups that NIU's concept of the IRL offers significant advantages. This has led to the establishment of a coordination group consisting of NIU, German and Russian groups under my leadership to carry this design forward. It should be noted that these tests have not only demonstrated the reliability of of the scintillator-SiPM technology but has also provided crucial input towards the validation of hadron shower simulation models which is crucial for realistic detector design studies in the particle flow framework. In this regard, I have carried out studies in digital hadron calorimetry, density- based cluster reconstruction and have provided graph theory based high efficiency algorithms to individually reconstruct showers constituting a jet for the US LC community.

ATLAS

My tenure with ATLAS (ending in 2014) was punctuated by interruptions as I was tasked for other projects and priorities that were deemed more schedule critical at that time. Even under these circumstances, however, I made significant and impactful contributions to the NIU ATLAS effort. I was involved with software development for the Tile Calorimeter. Apart from validation studies, this included providing new functionality in the form of database access, channel data quality tagging and crossing-by-crossing pileup. During this time, I was invited by the ATLAS Tile-Cal group to contribute to the understanding and measurement of the tile calorimeter response to cosmic ray muons. This, rather fruitful collaboration, culminated in publication of a comprehensive paper on the commissioning of the ATLAS tile calorimeter. The high-priority task of the validation of Monte Carlo and data analysis ntuples, being used by the collaboration at large, had also come under my purview. I initiated, at NIU, an analysis of di-boson (WZ) production in the trilepton channel. My efforts on this analysis allowed NIU to take a leadership role in the WZ analysis sub-group and also facilitated the smooth integration of one of our students (S. Cole) into the ATLAS physics environment. He subsequently, finished his doctoral thesis on WZ production in the trilepton channel. Results (WZ production at 7 TeV and constraints on the anomalous gauge couplings) on the first fb^{-1} of data were published with me as one of the primary authors.

Proton Computed Tomography

It has been a pleasure to be involved in a project that builds on my experience in high energy particle physics and puts it to use in an application that has the potential to have an immediate and significant societal impact. As is well known proton cancer therapy offers significant advantages in terms of accurately targeting tumors resulting in significantly lower doses to healthy tissue and consequently fewer short and long-term side effects. Part of this advantage is unfortunately nullified as treatment planning is still carried out using X-ray CT. In order to eliminate the proton range errors introduced due to the conversion of photon attenuation units to proton relative stopping power, it would be very beneficial to carry out the treatment planning also with protons. This would require the acquisition as well as precise reconstruction of the individual trajectory and residual energy/range of about a billion protons in a clinically acceptable duration of time. We have been working on the design and construction of a detector, under the aegis of a Department of Defense funded grant, that will allow one to take this step. The detector consists of four scintillating fiber tracking stations, two before and two after the phantom, and a scintillator tile calorimeter/range detector readout at a few MHz rate with SiPMs. Initially, I was charged with leading the team responsible for designing and constructing the scintillator calorimeter/range stack. This has since then been successfully assembled and commissioned. Later on, due to the sudden departure of a NIU colleague,the fiber tracker

with SiPM readout was added to my list. An exhaustive evaluation of the fiber tracker project as it stood at that stage, conducted jointly by Fermilab and NIU, revealed serious gaps in the required R&D. The project was subsequently, put on track, with risks mitigated and construction of the tracker planes was completed successfully. Under my leadership, the integration of all the sub-detectors, motion stage, data acquisition system and physical plant into a scanner unit has been accomplished and the detector is currently at the Central Dupage Hospital Proton Center taking data.

Mu2e

The Mu2e experiment will search for the neutrino-less conversion of a muon to an electron with unprecedented sensitivity. As an example of charged lepton flavor violation both the discovery or non-observation of this signal will significantly impact our understanding of physics beyond the Standard Model. I serve as the Level 3 Manager, in-charge of photodetectors, for the Mu2e Cosmic Ray Veto (CRV) detector. The CRV comprised of approximately 5500 scintillator strips using WLS fibers mated to silicon photomultipliers (SiPMs) will cover the detector hall and use 20K SiPMs. The CRV operating at 99.99% efficiency is key to identifying and rejecting cosmic induced background which would otherwise swamp the experiment. As the photodetector lead I am responsible for the selection, procurement, testing, installation and commissioning of these sensors.

DUNE

The Deep Underground Neutrino Experiment is a leading edge, dual-site neutrino science and proton decay experiment to be hosted at Fermilab for the global physics community. NIU has not had a history in neutrino physics. I have played a leadership role in opening this exciting avenue of research to our HEP faculty and students. Photon detection in LAr detectors will be crucial to enhancing and expanding the physics reach of these experiments. This is especially true for non-beam related events such as supernova bursts, proton decay, and dark matter interactions. An efficient photon detection system will be critical to triggering on these events of interest and, in combination with the charge readout, to refine and maximize the information available for reconstructing and analyzing such events. We have been welcomed as members of the DUNE Collaboration and have received project funding to utilize our experience and expertise with photon detection systems in general and Silicon Photomultipliers in particular for the DUNE detector and its prototypes. Recently, I have been appointed, by the DUNE Collaboration, as the Co-convenor of the photosensor working group of the Photon Detector Consortium.

CMS

NIU has recently joined CMS as a co-operating institute under my leadership. This has been prompted by the CMS Collaboration's interest in adopting and adapting R&D pioneered at NIU, initially in the context of the ILC, for the scintillator portion of the high luminosity endcap calorimeter upgrade. Maintaining performance in the high occupancy environment of the Endcap region coupled with cost considerations point towards high-granularity scintillator calorimetry for sections of the Fine and Back Hadronic compartments for which the IRL approach initiated by NIU using dimpled or shaped tiles directly-coupled (fiberless coupling) to silicon photomultipliers surface-mounted on a printed circuit board that carries the tiles and the front-end electronics appears to be the optimal implementation. With this in mind, I have recently been appointed as Level 4 manager for the "Scintillator Tiles and Modules" with overall responsibility for the specification, design, prototyping and later assembly and construction of the active layer.

Teaching

I have experience teaching gen-ed (Phys-162), undergraduate (Phys-253, Phys-383), Honors seminar (Phys-359) and graduate (Phys-500, Phys-570) level classes. Phys-162 is an introductory astronomy course for non-science majors. Phys-253 is a calculus-based introductory mechanics course taken by both physics and engineering majors. Phys-383 is an introductory Quantum Mechanics course usually taken by physics undergraduate junior and senior students. Topics addressed during this semester length course include quantization of light and atomic energy levels, matter waves, Schrodinger's equation in one and three dimensions,

spin, multi-electron atoms, atomic transitions and radiation. Phys-400/500 a.k.a. Analytical Mechanics II deals with the development of Lagrangian and Hamiltonian dynamics and its applications to some representative systems. Physics 570 a.k.a. Electricity and Magnetism II covering electrodynamics, conservation laws, electromagnetic waves, potentials , fields and radiation.

Notable talks since arrival at NIU

- *The CALICE AHCal and ScECal, Institute of Advanced Study Program in High Energy Physics, Hong Kong (2018).*
- *Scintillator Materials and Tiles, US-CMS High Luminosity LHC Review, Fermilab (2017).*
- *Detecting Photons for Discovery, NIU Colloquium, DeKalb (2017).*
- *The REDTOP Experiment, Light Dark Matter at Accelerators, Elba (2017).*
- *Silicon Photomultiplier Baseline and Test Plan, DUNE Photon Detector Review, Chicago (2016).*
- *SiPM Ganging Studies, DUNE Photon Detector Workshop, Fort Collins (2016).*
- *Silicon Photomultipliers for the Mu2e Experiment, DoE CD-3 Review, Fermilab (2016).*
- *Silicon Photomultipliers for the Mu2e Experiment, Fermilab Director's Review, Fermilab (2016).*
- *Irradiation of Advanced and Hamamatsu Silicon Photomultipliers, DPF, Ann Arbor (2015).*
- *The Mu2e Experiment at Fermilab, NIU Colloquium, DeKalb (2015).*
- *A Detector for Proton Computed Tomography, Visitors Program, University of Delhi, Delhi (2015).*
- *Readout with Surface-mounted SiPMs and Mega-tiles, CALICE Collaboration Meeting, Argonne National Lab (2014).*
- *Overview of ATLAS, Charged Higgs Workshop, Uppsala (2012).*
- *Containment of Hadronic Showers, CALOR, Santa Fe (2012).*
- *Directly-coupled Tiles for Fine Granularity Scintillator Calorimetry, CALOR, Santa Fe (2012).*
- *A Detector for Proton Computed Tomography, American Nuclear Society Meeting, Chicago (2012).*
- *On the Experimental Side, Quarknet, DeKalb (2010).*
- *Tile-Cal Software Status, Tile Week, CERN (2009).*
- *R&D on Directly Coupled Photosensors, CALICE Collaboration Meeting, Manchester (2008).*
- *TCMT Software Status, CALICE Collaboration Meeting, Manchester (2008).*
- *Fine Granularity Scintillator Calorimetry with SiPM Readout, IEEE, Dresden (2008).*
- *SiD HCAL: Gas or Scintillator, SiD Workshop, SLAC (2008).*
- *CALICE Run Plan at FNAL, CALICE Collaboration Meeting, Argonne National Lab (2008).*
- *Studies with Directly Coupled Photosensors, CALICE Collaboration Meeting, Prague (2007).*
- *TCMT Reconstruction and Software Status, CALICE Collaboration Meeting, Prague (2007).*
- *Tail-catcher and Muon Tracker Status, CALICE Collaboration Meeting, Montreal (2006).*
- *Scintillator HCAL R&D in the US, CALICE Collaboration Meeting, Montreal (2006).*

- *TCMT Integration and Run Plans for CERN, CALICE Collaboration Meeting, Montreal (2006).*
- *Summary of ILC Test Beam Efforts, LCWS, Bangalore (2006).*
- *Summary of Worldwide Calorimeter Test Beam Activities, ILC Physics and Detector Workshop, Snowmass (2005).*
- *Particle Flow Algorithm Developments at NIU, CALICE Collaboration Meeting, DeKalb (2005).*
- *Tail-catcher and Muon Tracker Prototype, ECFA, Durham (2004).*
- *CALICE Tile-HCAL and Tail-catcher/Muon Tracker, PRC Meeting, DESY (2004).*
- *Scintillator HCAL R&D, ALCPG Meeting, Victoria (2004).*
- *Calorimeter and Simulation Efforts in the US, ECFA, Montpellier (2003).*
- *Towards a Digital Hadron Calorimeter, ALCPG Meeting, Santa Cruz (2003).*
- *Searches for SUSY at the Tevatron, ICHEP, Amsterdam (2002).*
- *Towards a Digital Hadron Calorimeter, CALOR 02, Pasadena (2002).*
- *Higgs Prospects at the Tevatron, Aspen Winter Conference, Aspen (2001).*

Publications and Preprints

Papers where my work has served as a building block of a measurement are marked by a $\star$. These direct and significant contributions were either in the form of an analysis tool, or a reconstructed object (electron, photon, jets etc.), or a calibration or a Monte Carlo simulation or a constructed detector that constituted an essential ingredient of the results obtained. These contributions could be common to a number of analyses. Papers where in addition to such input I made further contributions specific to a particular analysis or measurement are marked with $\star\star$.

1. **"Photoelectron Yields of Scintillation Counters with Embedded Wavelength-Shifting Fibers Read Out With Silicon Photomultipliers"** $\star\star$
   A. Artikov *et al.* [Mu2e Collaboration].
   arXiv:1709.06587 [physics.ins-det]

   FERMILAB-PUB-17-386-PPD

2. **"Construction and Response of a Highly Granular Scintillator-based Electromagnetic Calorimeter"** $\star$
   J.-J. Blaising *et al.* [CALICE Collaboration].
   arXiv:1707.07126 [physics.ins-det]

3. **"The Single-Phase ProtoDUNE Technical Design Report"** $\star$
   B. Abi *et al.* [DUNE Collaboration].
   arXiv:1706.07081 [physics.ins-det]
   FERMILAB-DESIGN-2017-02

4. **"The Laser calibration of the Atlas Tile Calorimeter during the LHC run 1"** $\star$
   J. Abdallah *et al.* [ATLAS Tile Calorimeter system Collaboration].
   arXiv:1608.02791 [physics.ins-det]
   DOI:10.1088/1748-0221/11/10/T10005
   JINST **11**, no. 10, T10005 (2016)

5. **"DHCAL with Minimal Absorber: Measurements with Positrons"** ⋆
   B. Freund *et al.* [CALICE Collaboration].
   arXiv:1603.01652 [physics.ins-det]
   DOI:10.1088/1748-0221/11/05/P05008
   JINST **11**, no. 05, P05008 (2016)

6. **"Calibration and GEANT4 Simulations of the Phase II Proton Compute Tomography (pCT) Range Stack Detector"** ⋆⋆
   S. A. Uzunyan *et al.*.
   arXiv:1601.00249 [physics.ins-det]

7. **"MAPMT H7546B anode current response study for ILC SiD muon system prototype"** ⋆⋆
   A. Dyshkant, G. Blazey, D. Hedin, V. Zutshi, H. Fisk, C. Milstene and R. Abrams.
   10.1109/NSSMIC.2007.4437260

8. **"Development of a proton Computed Tomography Detector System"** ⋆⋆
   M. Naimuddin *et al.*.
   arXiv:1510.00130 [physics.med-ph]
   10.1088/1748-0221/11/02/C02012
   JINST **11**, no. 02, C02012 (2016)

9. **"Shower development of particles with momenta from 15 GeV to 150 GeV in the CALICE scintillator-tungsten hadronic calorimeter"** ⋆⋆
   M. Chefdeville *et al.* [CALICE Collaboration].
   arXiv:1509.00617 [physics.ins-det]
   10.1088/1748-0221/10/12/P12006
   JINST **10**, no. 12, P12006 (2015)

10. **"Measurement of the centrality dependence of the charged-particle pseudorapidity distribution in proton–lead collisions at $\sqrt{s_{\rm NN}} = 5.02$ TeV with the ATLAS detector"**
    G. Aad *et al.* [ATLAS Collaboration].
    arXiv:1508.00848 [hep-ex]

11. **"Measurement of the production of neighbouring jets in leadlead collisions at $\sqrt{s_{\rm NN}} =$ 2.76TeV with the ATLAS detector"**
    G. Aad *et al.* [ATLAS Collaboration].
    arXiv:1506.08656 [hep-ex]
    10.1016/j.physletb.2015.10.059
    Phys. Lett. B **751**, 376 (2015)

12. **"Centrality, rapidity and transverse momentum dependence of isolated prompt photon production in lead-lead collisions at $\sqrt{s_{\rm NN}} = 2.76$ TeV measured with the ATLAS detector"**
    G. Aad *et al.* [ATLAS Collaboration].
    arXiv:1506.08552 [hep-ex]

13. **"Advances in Multi-Pixel Photon Counter Technology"**
    R. Abrams, D. Hedin and V. Zutshi.

14. **"Measurement of the forward-backward asymmetry of electron and muon pair-production in *pp* collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector"**
    G. Aad *et al.* [ATLAS Collaboration].
    arXiv:1503.03709 [hep-ex]
    10.1007/JHEP09(2015)049
    JHEP **1509**, 049 (2015)

15. **"Two-particle BoseEinstein correlations in pp collisions at $\sqrt{\rm s} = 0.9$ and 7 TeV measured with the ATLAS detector"**
    G. Aad *et al.* [ATLAS Collaboration].

arXiv:1502.07947 [hep-ex]
10.1140/epjc/s10052-015-3644-x
Eur. Phys. J. C **75**, no. 10, 466 (2015)

16. **"Observation of top-quark pair production in association with a photon and measurement of the $t\bar{t}\gamma$ production cross section in pp collisions at $\sqrt{s}$ = 7 TeV using the ATLAS detector"**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1502.00586 [hep-ex]
10.1103/PhysRevD.91.072007
Phys. Rev. D **91**, no. 7, 072007 (2015)

17. **"Measurement of the charge asymmetry in dileptonic decays of top quark pairs in pp collisions at $\sqrt{s} = 7$ TeV using the ATLAS detector"**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1501.07383 [hep-ex]
10.1007/JHEP05(2015)061
JHEP **05**, 061 (2015)

18. **"Search for pair-produced long-lived neutral particles decaying in the ATLAS hadronic calorimeter in pp collisions at $\sqrt{s}$ = 8 TeV"**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1501.04020 [hep-ex]
10.1016/j.physletb.2015.02.015
Phys. Lett. B **743**, 15 (2015)

19. **"Identification and energy calibration of hadronically decaying tau leptons with the ATLAS experiment in pp collisions at $\sqrt{s}$=8 TeV"**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1412.7086 [hep-ex]
10.1140/epjc/s10052-015-3500-z
Eur. Phys. J. C **75**, no. 7, 303 (2015)

20. **"Centrality and rapidity dependence of inclusive jet production in $\sqrt{s_{\rm NN}}$ = 5.02 TeV proton-lead collisions with the ATLAS detector"**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1412.4092 [hep-ex]
10.1016/j.physletb.2015.07.023
Phys. Lett. B **748**, 392 (2015)

21. **"Pion and proton showers in the CALICE scintillator-steel analogue hadron calorimeter"** $\star\star$
B. Bilki *et al.* [CALICE Collaboration].
arXiv:1412.2653 [physics.ins-det]
10.1088/1748-0221/10/04/P04014
JINST **10**, no. 04, P04014 (2015)

22. **"Search for anomalous production of prompt same-sign lepton pairs and pair-produced doubly charged Higgs bosons with $\sqrt{s} = 8$ TeV pp collisions using the ATLAS detector"**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1412.0237 [hep-ex]
10.1007/JHEP03(2015)041
JHEP **1503**, 041 (2015)

23. **"Testing hadronic interaction models using a highly granular silicon-tungsten calorimeter"** $\star$
B. Bilki *et al.* [CALICE Collaboration].

arXiv:1411.7215 [physics.ins-det]
10.1016/j.nima.2015.05.009
Nucl. Instrum. Meth. A **794**, 240 (2015)

24. **"Searches for heavy long-lived charged particles with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 8$ TeV"**
G. Aad *et al.* [ATLAS Collaboration].
arXiv:1411.6795 [hep-ex]
10.1007/JHEP01(2015)068
JHEP **1501**, 068 (2015)

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C. Adloff *et al.* [CALICE Collaboration].
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