

# Curriculum Vitae

## A. Biographical Information

### 1. Personal

**Name:** Prof. William Trischuk

**Address:** 23 Mayfield Ave. Department of Physics  
Toronto, ON 60 St. George St.  
M6S 1K2 Toronto, ON  
Canada M5S 1A7  
Canada  
☎ (416) 978-8095  
(416) 978-8221 (fax)

Married with two daughters (ages 25 and 17)

### 2. Degrees

Doctor of Philosophy 1990 Harvard University.

"A Measurement of the W Boson Mass in 1.8 TeV Proton-Antiproton Collisions", supervisor Roy Schwitters.

Bachelor of Science 1986 McGill University.

### 3. Employment

#### University of Toronto

Department of Physics	Professor	2003 – present,
Department of Physics	Associate Chair for Graduate Studies	2014 – 2018,
Department of Physics	Associate Professor	2000,
Department of Physics	Assistant Professor	1996.

#### CERN

ATLAS Experiment	Guest Professor	2013 - 2014.
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### 3. Employment (continued)

<b>Institute of Particle Physics</b>	Director	2004 – 2013.
<b>TRIUMF</b> Physics Division	Visiting Scientist	2008 - 2009.
<b>KEK, Japanese High Energy Physics Laboratory</b> Physics Division	Mombusho/JSPA Fellow	2002.
<b>Princeton University</b> Department of Physics	Visiting Research Scientist	2001 - 2002.
<b>CERN</b> Particle Physics Experiments	Staff Member	1992.
Particle Physics Experiments	Scientific Associate	1990.
<b>Harvard University</b> High Energy Physics group	Research Associate	1987.
Department of Physics	Teaching Assistant	1987.
<b>McGill University</b> Particle Physics group	Research Associate	1986.

### 4. Honours

Fellow of the American Physical Society	2010.
NSERC 1967 Graduate Scholarship	1986-1990.
McGill Newton Medal - Top student in Math/Sciences	1986.

### 5. Professional Affiliations and Activities

European Physical Society	1990 - 1996.
American Physical Society	1986 - 1992. 2010 - .
Canadian Association of Physicists	1984 - 1987. 1996 - 2014 . 2021 -- .
Institute of Particle Physics	1996 - .

## **B. Academic History**

### **6.A. Research Endeavours**

My primary research interest is the study of high-energy hadron collisions. I am a founding member of the ATLAS experiment at CERN. After 15 years of design and construction we have completed the second data-taking period at the LHC. During the past year the ATLAS collaboration has published over 100 physics papers including much more precise measurements of the properties of the Standard Model Higgs boson that was discovered in 2012. I developed a system of beam collision monitors (BCM) that are our last line of defense against unstable LHC beams and determine the collision rates (luminosity) in ATLAS. These are now positioned within 5cm of the LHC beam and less than 2m from the ATLAS interaction point. At this location they must survive enormous radiation doses. They are working well and have ensured the safe operation of the ATLAS experiment for the last eight years and in 2011 were the default luminosity monitors providing the basis for an unprecedented (at hadron colliders) 2% determination of the luminosity in ATLAS. With students I have studied ATLAS physics signals (searches for Standard Model single top production and possible members of a fourth generation of quarks, Higgs production in association with vector bosons, polarisation of the top quark and high mass WW resonances that could indicate new physics beyond the Standard Model). Two of these studies have resulted in early ATLAS publications. Another two resulted in publications in 2017 and the WW searches were published in 2019.

The current focus of my efforts on the ATLAS experiment is the assembly and testing of silicon strip tracker modules for the ATLAS-ITK tracker upgrade that will be installed in Geneva in 2026. Together with Celestica Inc. (in Newmarket) we are assembling 6000 readout hybrids and 600 silicon tracker modules as part of the Canadian contribution to this upgrade. These precision (10um or better) tracker modules are being assembled from parts (silicon sensors, readout ASICs and bare hybrid readout substrates) designed by the ATLAS collaboration. Our Canadian contribution is funded by a 7 year CFI award of \$25M, of which about \$8M will be devoted to the work we are doing in Toronto. Ensuring that our contribution (about 10% of the ATLAS endcap trackers being assembled) meets ATLAS specifications will occupy 75% of my research time between 2019 and 2026, while the remainder will continue to go in to physics studies with the ATLAS data.

I spent the 2013-14 academic year at CERN as a guest professor. During this time the ATLAS experiment completely re-furbished it's inner-most pixel detector. As part of this refurbishment we were able to install a much more intricate set of Diamond Beam Monitors (DBM) that have pixilated readout and charged particle tracking capability. The 24 detector modules have 26,000 individual pixels and are arranged in eight 3-layer telescopes pointing towards the ATLAS interaction region. They are designed to count tracks coming from the interactions thereby measuring the proton collision luminosity and to distinguish beam backgrounds that do not originate from the interaction point. During my stay at CERN I

## 6.A Research Endeavours (continued)

coordinated all aspects of the assembly, installation and commissioning of the DBM which is ready for the first collisions in 2015. During the winter of 2015 I spent one week a month at CERN to continue these commissioning efforts.

As a result of this work I was asked to co-chair the organizing committee for the bi-annual, international conference on pixel detector technologies (PIXEL2014). We hosted this meeting in a hotel in Niagara Falls, Canada. 114 participants gave 56 invited talks and presented 12 posters in this 5-day meeting. I was responsible for all the on-site logistics including catering, conference venue and accommodations. By all accounts the meeting was a tremendous success.

For the past 20 years I have been developing Chemical Vapour Deposited (CVD) diamond particle sensor material that can survive the doses found near the interaction point at ATLAS. Diamond, with its tightly bound lattice and high band gap, offers two orders of magnitude greater radiation tolerance than silicon in these applications. Before coming to Toronto I was the spokesman of RD42, the diamond detector development project at CERN. This involved the coordination of a group of 50 physicists from 20 institutions in Europe and North America. I arranged the collaborative purchase of CVD diamond sensor material and its subsequent manufacture into strip and pixel tracker prototypes. After spending 10 years as a regular collaborator in RD42 I was asked to resume my duties as co-spokesperson in the fall of 2012. This generic R&D work has been instrumental in providing the sensors for the ATLAS BCM and in 2015 we provided another round of sensors for the ATLAS-DBM.

In the fall of 2004 I accepted the position of Director of the Canadian Institute of Particle Physics (IPP). The IPP is a non-profit corporation, operated by fourteen institutional (mostly University) members across the country for the benefit of particle physics in Canada. The University of Toronto was a founding member 34 years ago. The main activity of the Institute is to manage NSERC funding that supports eight faculty-equivalent research scientists, who have appointments at member institutions across the country. These scientists lead the Canadian efforts in major particle physics experiments around the world. A secondary role of the Institute is to help in the long range planning of high energy physics activities in Canada. In this regard I have been in regular discussions with various individuals involved in the funding of such activities, including the NRC president, president of NSERC, the president of the CFI, the Prime Minister's Science advisor and science advisors in the ministry of Industry. During the fall of 2005 NSERC sponsored a decadal study of particle physics in Canada. The IPP, under my direction provided much of the input to this study. As a member of the decadal planning committee I led the preparation of the final report, and am currently in the process of using it to "sell" particle physics to the Canadian government. The IPP grant was renewed for, an unprecedented, five years in April 2008. We were awarded a 16% increase in funding as a result of a number of new initiatives I pursued during my term as Director. The increase is also a result of significant additional effort we put into re-structuring the IPP to fit into the context of

## 6.A. Research Endeavours (continued)

NSERC's new MRS grant program that supports major research institutes in many disciplines in Canada. In 2008 we successfully launched the IPP postdoctoral theory fellowship program providing members with salary support to enable them to compete to bring the highest profile postdoctoral researchers to Canada. In 2009 we launched the IPP/CERN summer student program that supports five Canadian undergraduates to spend 2-4 months at CERN every summer. This program has been a huge success attracting thirty students (so far) all of whom have gone on to do graduate work, most in particle physics and about half in Canada. I stepped down as Director in the spring of 2013, after nine years to focus on my ATLAS detector upgrade responsibilities.

In 2009-2010 I was the co-chair of the local organising committee for the Hadron Collider Physics conference. We hosted this meeting at the University of Toronto in late August 2010. The meeting attracted 145 participants from around the world and was the first, in this topical series, to include reports on physics results from the first data-taking at the LHC. Only one month after the very first results had been presented at the ICHEP meeting in Paris this meeting provided a forum for a week-long discussion by experts of the results and included 20 posters from students and junior postdocs on the details of their work with the early LHC data. I am the editor of the proceedings that were e-published in early 2011.

Between 1996 and 2007 I was a member of the Collider Detector at Fermilab (CDF) collaboration where I successfully installed and commissioned parts of the support and alignment mechanics for the silicon vertex detector. In 2001 we began collecting data with an upgraded detector in a run that has only recently ended. I used the data collected by CDF in this period to study properties of the  $W$  boson. Together with two of my students we are led the effort to measure the mass the  $W$  boson using the CDF data. This is one of the 18 fundamental parameters of the Standard Model of particle physics. In 2007 CDF published the most precise single experiment measurement of the  $W$  boson mass. This improved the world average by 20% placing intriguing constraints on the Standard Model prediction for the Higgs Boson mass – consistent with the recent observation of a Higgs boson in the ATLAS experiment. This is an important cross-check for the self-consistency for the Standard Model.

In preparation for a sabbatical leave in the summer of 2008 I began the study of production and testing of superconducting RF cavities that will be used for future high energy accelerators. During my sabbatical stay at TRIUMF I developed a cryostat capable of testing single-cell prototype cavities and study the surface preparation and handling necessary for them to achieve peak performance. The next generation of electron-positron colliders will consist of a single-pass series of accelerating cavities. Depending on the quality and reliability of the industrial production of these cavities this linear collider will likely need to be 20-30km in length. Higher gradient cavities will allow the necessary energies to be reached in a shorter tunnel, resulting in significant cost savings. TRIUMF is developing is superconducting RF capabilities in an effort to build an electron linac to produce

## 6.A. Research Endeavours (continued)

radioactive beams. To this end they have been working with Canadian industry to supply the cavities. If this work is successful Canadian suppliers could be in a unique position to bid on a significant fraction of the accelerating cavities that would be necessary for a linear collider towards the end of the next decade. Over the course of the 2008 academic year I developed proposals to the CFI to establish SRF cavity testing infrastructure in Toronto and to NSERC to develop a proof-of-principal application of an electron accelerator to flue-gas emission treatment.

During the 2001-2002 academic year I took a sabbatical leave from the University of Toronto. I spent the first part of the year at Princeton University and the four months at KEK - the Japanese high energy accelerator laboratory. During that year I worked on the Belle experiment. I studied the high statistics  $B$  meson samples collected by the Belle experiment, looking first for  $B$  decays containing a  $J/\Psi$  meson that had decayed hadronically and later studying  $B$  decays into a  $J/\Psi$  meson that decayed leptonically accompanied by a  $K_L$  meson. Both of these channels lend themselves to the study of CP violation in  $B$  decay, and are channels that we will never be able to study with at CDF, because of excessive backgrounds. I also spent part of my time simulating and designing a trigger for the Belle experiment that will use information from a silicon detector that was installed in 2003. This trigger rejected interactions likely to have come from beam-gas interactions.

Prior to coming to Toronto I was a senior member of the DELPHI experiment at CERN studying  $e^+e^-$  collisions at the highest energy available in the world. I led efforts to measure the lifetime of the tau lepton. I was responsible for the construction and operation of two silicon vertex detectors that were used in DELPHI and served as operations manager for the DELPHI experiment in 1993.

From 1986 to 1990 I did my thesis work on the CDF experiment where I was responsible for the operation of the calorimeters and measured the W boson mass with the highest precision in the world. Combined with precise top quark mass measurements the W mass now provides the world's most precise indication of the Higgs boson mass. As an undergraduate research student I helped build a uranium liquid argon calorimeter, built a cosmic ray air-shower array, helped run a Fermilab fixed target and tested a novel set of drift chambers during the construction of the OPAL experiment.

## 6. B. Research Support

I currently hold the following research awards:

An NSERC project grant that supports the work of our group on the ATLAS experiment. This provides \$971,000 this year and is held jointly with Profs. P. Krieger, R.S. Orr, P., Savard, P.K. Sinervo and R. Teuscher. In 2020 I took over as PI on the Toronto share of the NSERC grant. I currently manage this money, authorize all expenditures and prepare budgets/reconciliations for NSERC and

## **6B. Research Support (continued)**

our ATLAS-Canada collaboration. This supports our group of six postdocs and 17 graduate students. This award also supports my work on the ATLAS upgrades – including two postdocs and one graduate student.

In 2017 we were awarded a \$25M CFI infrastructure support award, to build the Canadian part of the ATLAS ITK tracker upgrade that will be installed at CERN in 2025. \$8M of this will be spent at the University of Toronto in the next 6 years as we build 600 silicon tracker modules and 6000 module readout hybrids (3600 of these will be provided to other module assembly sites). I am ramping up my involvement in these activities as they are similar to work I did on the DELPHI and CDF experiments earlier in my career.

In the past I held the following research awards:

The IPP operating grant: This award provides support for eight research scientists based at universities across Canada as well as four theoretical postdoctoral fellows, five undergraduate summer students who we send to CERN each year and one high school teacher who participates in the CERN summer program. During my last partial year as Director the award was \$1,140,000 and has totaled almost \$10M during my eight-year tenure as IPP Director.

An NSERC equipment grant supporting diamond pixel detector R&D for the ATLAS upgrade that I lead in Canada. This provided me with \$180,000 to acquire diamond sensors that have been assembled into pixel modules for the ATLAS DBM between 2010 and 2013.

Professor R.S. Orr and I shared an NSERC discovery grant awarded in 2010 to develop the capability to test superconducting RF cavities in conjunction with TRIUMF. The \$40,000 awarded in each of three years was used to produce a second sound array that monitored SRF cavity tests and is being used to localize quenches allowing the study the properties of the cavity material (Niobium) where the quench. This could ultimately help refine fabrication and surface treatment procedures improving cavity manufacture reliability.

During my first ten years in Toronto I was involved in the CDF experiment. NSERC's support of this project dates back to my arrival in Canada in 1996. I received \$50,000 over two years. In the early 2000s the CDF project grant peaked at a level of \$600,000 per year that supported a group of four faculty, four research associates and twelve graduate students at Toronto. I was the PI for the CDF project from 1999 to 2004. I have also received a Connaught new faculty startup matching grant for \$29,000 that was devoted to prototyping the ATLAS pixel detector position monitoring hardware. Finally since coming to Toronto I have received an additional \$US 42,000 contract for the purchase of CVD diamond material from Fermilab and have been co-signatory on a \$65,000 NSERC grant for the purchase of a new computing server for the HEP group at Toronto.

Before coming to Toronto I was spokesman of the RD42 project at CERN. There I received (with one colleague) CHF 175,000 of support over two years for the purchase of diamond material, testing equipment and to support two graduate

students. I was also responsible for the upgrade of the DELPHI silicon vertex detector that received CHF 600,000 over three years between 1993 and 1995. This supported a group of 10 physicists, 3 postdoctoral fellows and 3 graduate students during the construction and installation of the detector.

## **C. Scholarly and Professional Work**

### **7. Refereed Journal Publications**

See attachment (1523 publications over last 35 years)

### **8 Non-Refereed Publications**

Included above (47 conference proceedings and 20 reports)

### **9 Publications in Preparation**

### **10. Papers Presented at Meetings**

"Intermediate Vector Boson Production at 1.8 TeV", Canadian Association of Physicists Annual Congress, Montreal, June 1988.

"High Statistics Measurements of W and Z Bosons at Fermilab", American Physical Society, Baltimore, May 1989.

"Electroweak Physics Results from CDF", European Physical Society, Madrid, September 1989.

"Collider Measurements of the W Boson Mass", Italian Physical Society, Trento, October 1990.

"Status of the DELPHI Microvertex Detector", European B factory Workshop, Paris, December 1990.

"B and D lifetime Measurements at LEP", 4th International Symposium on Heavy Flavour Physics, Orsay, France, June 1991.

"A Review of the Tau Lifetime", 2nd International Workshop on Tau Lepton Physics, Columbus, Ohio, September 1992.

"Preliminary Results from a Diamond Strip Tracker", Workshop on Diamond Detectors, London, February 1994.

"First Results from a Diamond Microstrip Detector", Conference on Advanced Technology and Particle Physics, Como, Italy, October 1994.



## 10. Papers Presented at Meetings (continued)

- "The Status of Diamond Detectors", European Physical Society, Brussels, July 1995.
- "The Tau Lepton Lifetime", 1996 Aspen Winter Conference on Particle Physics, January 1996
- "Diamond Detectors for Future Hadron Colliders", 4th International Conference on Gallium Arsenide and other Radiation Hard Detectors, Glasgow Scotland, June 1996.
- "Current Status of the CDF Experiment", Canadian Association of Physicists Annual General Meeting, Calgary, June 1997.
- "The Current Status of Semiconductor Trackers at the LHC", 8th International Wire Chamber Conference, Vienna, February 1998.
- "The First Bump Bonded Diamond Pixel Detector", Pixel 1998, Fermilab, May 1998.
- "Rare  $B$  Meson Decays with the CDF Experiment", 4<sup>th</sup> International Meeting on Charm, Beauty and Hyperons, Genoa, Italy, July 1998.
- "CP violation measurements with the CDF experiment", 3rd International Meeting on CP-Violation and  $B$  Physics, Taipei, Taiwan, December 1999.
- "CP violation measurements with the CDF experiment", American Division of Particles and Fields Meeting, Columbus, Ohio, August 2000.
- "A Measurement of the CP violating angle  $\Phi_1$  with Belle", Canadian Association of Physicists Congress, Quebec, June 2002.
- "Recent Results on CP Violation from the Belle Experiment", SLAC Summer Institute, Stanford, CA, August 2002.
- "Current Status of Diamond Particle Detectors", ICHEP04, Beijing, China, August 2004.
- "Recent Electroweak Physics Results from CDF", APS05, Tampa, FL, April 2005.
- "The Subatomic Physics Long Range Plan", National Science Facilities meeting, Canadian Light Source, Saskatoon, January 2007.
- "The Status of the LHC Collider", ATLAS-of-the-Americas workshop, Vancouver, June 2008.
- "Recent Advances in Diamond Detectors", ICHEP08, Philadelphia, USA, August 2008.

## 10. Papers Presented at Meetings (continued)

“Superconducting RF cavity development in Canada”, Canadian Association of Physicists Congress, Moncton, June 2009.

“Current State of the LHC and ATLAS”, 1<sup>st</sup> South Western Ontario LHC Phenomenology workshop, Perimeter Institute, Waterloo, Oct. 2009.

The Current State of the Art of Diamond Detectors. European Physical Society parallel session, Grenoble, July 2011.

Diamond Detectors for Future Particle Physics Experiments, Snowmass detector working group meeting, Boulder, Colorado, April 2013.

Diamond Particle Detector Systems for High Energy Physics, ICHEP14, Valencia, Spain, July 2014

Discovery of the Higgs Boson with the ATLAS Experiment at CERN, Tsukuba Global Science Week, Tsukuba, Japan, October 2014

Status and Plans for the ATLAS Experiment, 51<sup>st</sup> Miami Topical Conference on Particle Physics, Ft. Lauderdale, FL, December 2014

## 11. Invited Lectures

Recent Electroweak Physics Results from CDF, Cornell University, January 1990.

Measuring the  $W$  Mass with the CDF detector, SLAC,  
Lawrence Berkeley Laboratory,  
Argonne National Laboratory,  
SSC Laboratory, CERN  
Freiburg Germany, LAL-Orsay,  
March - September 1999

DELPHI Microvertex Detector Physics, Brookhaven National Lab, May 1991.

The DELPHI Tau Lepton Lifetime, Lawrence Berkeley Laboratory, October 1994.

The Potential of CVD Diamond for Radiation Hard Trackers, DESY, Dec. 1994.

Developments in CVD Diamond Detector Technology, MPI-Heidelberg,  
Cambridge University,  
Sheffield University,  
February - October 1995.

Diamond Detectors for Future Hadron Colliders, Colloquium at Toronto Oct 1996.  
at Waterloo Feb 1997.

## 11. Invited Lectures (continued)

- B* Physics with the CDF Experiment at Carleton University, March 1998.
- Progress with Diamond Particle Detectors, Colloquium at York U., Oct. 1998.
- Recent *B* Physics Results from the CDF Experiment, Princeton University  
Centre des Etudes Atomiques, Saclay  
University of Alberta  
February - March 2000.
- Recent Developments in CVD Diamond Pixel Detectors, Invited talk Schweisel  
Foundation Seminars, Bonn, Germany,  
June 2000.
- The CDF Silicon Detector Upgrade and *B* Physics Potential, KEK - Japanese  
Particle Physics Lab, December 2000.
- Recent Results on CP violation from the Belle Experiment, Toronto, Oct 02  
Rutgers, Colloquium, Nov 02
- Current Status of the CDF Experiment, Canadian Association of Physicists Annual  
General Meeting, Charlottetown June 2003.
- Flavour Physics and *B* mixing at Hadron Colliders,  
two lectures at TRIUMF summer school, July 2003.
- Recent Results from the CDFII experiment, Victoria seminar, June 2004.
- The Future of Experimental Particle Physics in Canada, colloquium at  
the Perimeter Institute, Waterloo, February 2005.
- Canadian Particle Physics in the Coming Decade, IPP contribution to the NSERC  
subatomic physics long range plan Town Hall meeting, McGill, December 2005.
- Physics from the LHC to the ILC, Session summary at the North American Linear  
Collider Physics Workshop, TRIUMF, July 2006.
- The CDF Measurement of the *W* Boson Mass, Colliders 2 Cosmic Rays, Lake  
Tahoe, CA, February 2007.
- The CDF *W* Mass and Width Measurement, Hadron Collider Physics 2007, Elba,  
Italy, May 2007.
- Diamond Pixel Detectors for the ATLAS Upgrade, Vertex 2007, Lake Placid, NY,  
September 2007.
- The Future of Particle Physics in Canada, Rutherford Lab, Didcot, England,  
February 2008.

## 11. Invited Lectures (continued)

The Status of the ATLAS Beam Conditions Monitor, ATLAS-Canada workshop, Ottawa, December 2008.

The State of the Art of Diamond Sensors, TRIUMF, Vancouver, April 2009.

Perspectives on Future HEP Activities in North America, HCP2009, Evian, France, November 2009.

Mega Accelerators for Micro-Science, McGill colloquium, November 2009.  
York colloquium, January 2010.

The Canadian Particle Physics Program, 13<sup>th</sup> ISTC Seminar, Novosibirsk, Aug.2010.

Accelerator R&D in a University Setting, McGill HEP seminar, November 2010.

The Canadian Particle Physics Program, 88<sup>th</sup> European Commission of Future Accelerators plenary meeting, CERN, November 2010.

Canadian Particle Physics in the Coming Decade, IPP contribution to the NSERC subatomic physics long range plan Town Hall meeting, Toronto, January 2011.

Commissioning and Using Silicon Trackers in HEP experiments, European Detector and Instrumentation School, CERN, February 2011.

Diamond Detectors: Present and Future applications in ATLAS, MIT, November 2011.

ATLAS Higgs Discovery, Queens University, Physics Department Colloquium, November 2012.

Science Rendevous "Brave New Physics", described Higgs discovery on a panel with Sean Carroll, Pierre Savard and Jay Ingram. Inaugural lecture in this UofT outreach series. December 2012.

The LHC, ATLAS and the Higgs, Queens Engineering Space conference, January 2013.

Diamond Detector Applications at the LHC and beyond, University of Texas, Austin, April 2013.

Diamond Detector Applications at the LHC and beyond, University of Valencia, Spain, January 2014.

Diamond Detector Applications at the LHC and beyond, Michigan State University, January 2015.

## D. List of Courses

### 12. A. Undergraduate Courses

- PHY357. Particle and Nuclear Physics  
2 lectures/wk, 35 undergrad students (2019-20),  
2 lectures/wk, 30 undergrad students (2018-19),  
2 lectures/wk, 30 undergrad students (2017-18),  
2 lectures/wk, 35 undergrad students (2016-17),  
2 lectures/wk, 25 undergrad students (2012-13).
- PHY489. Introduction to High Energy Physics  
2 lectures/wk, 22 undergrad students (2014-15),
- PHY293, Modern Physics for Engineering Science  
3 lectures/wk, 190 students (two sections) (2017-18).
- PHY293, Oscillations and Waves for Engineering Science  
3 lectures/wk, 180 students (two sections) (2009-10).  
3 lectures/wk, 210 students (two sections) (2010-11).  
3 lectures/wk, 190 students (two sections) (2011-12).  
3 lectures/wk, 200 students (two sections) (2012-13).
- PHY189, Cutting Edge Physics  
1 three-hour seminar/wk, 25 students (2009-10).
- PHY190, Special Relativity for Engineering Science Students  
3 lectures/wk, 350 students (two sections) (2007-08),  
3 lectures/wk, 330 students (two sections) (2006-07),  
3 lectures/wk, 300 students (two sections) (2005-06).  
Entirely new course/text.
- ESC101/102, First Year Engineering Science Physics Lab.  
One 3hr lab/wk, 45 students, 3 TAs (2007-08).  
One 3hr lab/wk, 45 students, 3 TAs (2006-07).
- PHY138. Introductory Physics (Electricity and Magnetism)  
2 lectures/wk, 1100 students in one class (2004-05),  
2 lectures/wk, 1200 students in one class (2003-04),  
10 lectures/wk, 1000 students in 5 sections (2002-03).
- PHY489. Introduction to High Energy Physics  
2 lectures/wk, 15 undergrad students (2004-05),  
2 lectures/wk, 9 undergrad students (2003-04),  
2 lectures/wk, 8 undergrad students (2002-03).
- PHY424. Senior undergraduate laboratory.  
Two 3hr labs/wk, 40 students, 210 TA hours (2019-20),  
Two 3hr labs/wk, 40 students, 210 TA hours (2018-19),  
Two 3hr labs/wk, 20 students, 210 TA hours (1998-99),  
Two 3hr labs/wk, 25 students, 210 TA hours (1999-2000),  
Course coordinator.  
Two 3hr labs/wk, 30 students, 210 TA hours (2000-01).  
Course coordinator.

## 12. A. Undergraduate Courses (continued)

PHY281S. Physics IV, Intro to Quantum Mechanics.  
3 lectures/wk, 100 students, 110 TA hours (1997),  
3 lectures/wk, 140 students, 190 TA hours (1998),  
3 lectures/wk, 130 students, 190 TA hours (1999),  
3 lectures/wk, 150 students, 190 TA hours (2000) Coordinator,  
3 lectures/wk, 140 students, 125 TA hours (2001) Co-taught.

PHY299Y. Characterisation of Diamond Detectors,  
Research experience, 2 students (1997-98),  
Research experience, 1 students (1998-99).

PHY487S, Development of Drift Chamber Senior Lab  
Senior Thesis for Trevor Mills (1999).

PHY487S, Single-top physics searches at CDF,  
Senior Thesis for Brian Kirby (2005).

PHY487S, Simulations of the ATLAS Beam Conditions Monitor  
Senior Thesis for Stefan Kissiov (2008).

PHY487S, High Voltage control and monitoring for ATLAS silicon  
module production  
Senior Thesis for Paul Xie (2019).

## 12. B. Graduate Courses

PHY1489F. Introduction to High Energy Physics,  
2 lectures/wk, 3 students (2014-15),

PHY2405F. Experimental Methods in Particle Physics,  
2 lectures/wk, 10 students (2006).  
Course coordinator + one of six lecturers.

PHY1810F. Introduction to High Energy Physics,  
2 lectures/wk, 8 students (2004-05),  
2 lectures/wk, 4 students (2003-04),  
2 lectures/wk, 6 students (2002-03).

PHY2405F. Experimental Methods in Particle Physics,  
2 lectures/wk, 2 students (2019-20)  
2 lectures/wk, 4 students (2018-19)  
2 lectures/wk, 8 students (2005-06) --  
coordinated lectures given by all six HEP faculty.  
2 lectures/wk, 3 students (1997 and 1998).

## 13. A. Theses Supervised

### Masters Students:

- Dirk Meier, Diamond Detectors for Particle Physics,  
(Secondary Advisor, January 1995 - May 1996).  
Dan Humphrey, Rare top decays with the CDF experiment,  
(Primary Advisor, September 1998-August 1999).  
Chav Chhiv Chau, ATLAS beam monitoring  
(Primary Advisor, June 2011 – August 2012).  
Mario Seeli, Visiting International MSc Student from ETH Zurich  
CVD Diamond signal Uniformity  
(Primary Advisor, February 2015 – August 2015).

### Doctoral Students:

- Henry Meng, Dark matter searches with ATLAS  
(Primary Advisor, January 2018, -- )  
Robert Les, ATLAS dark matter searches  
(Primary Advisor, Sept 2015, -- December 2019)  
Miriam Diamond, ATLAS DBM and Dark Matter searches  
(Primary Advisor, Sept 2013, -- March 2017).  
Garrin McGoldrick, ATLAS DBM and top polarisation  
(Primary Advisor, Sept. 2012 – February 2017).  
Chav Chhiv Chau, ATLAS DBM and Quartic Gauge Couplings  
(Primary Advisor, Feb. 2013 – January 2017).  
Dominique Tardif, Search for single top production at the LHC  
(Primary Advisor, September 2006 - 2011).  
Ian Vollrath, W Boson Production asymmetries with CDF-II  
(Primary Advisor, September 2002 – November 2006).  
Sven Vahsen, CP Asymmetries in J/Psi KL decay at Belle  
(Secondary Advisory, June 2001 - July 2002).  
Oliver Stelzer-Chilton, W mass studies the CDF-II experiment,  
(Primary Advisor, June 2001 – October 2005).  
Bernd Stelzer, Single top production with CDF-II,  
(Primary Advisor, September 2001 – April 2005).  
Bjoern Hinrichsen, Jet Studies with CDF,  
(Primary Advisor, February 1996 - January 1999).  
Robert Cropp, J/Psi meson polarisation with CDF,  
(Primary Advisor, September 1996 - August 2000).  
Attilio Andreazza, The Tau Lifetime at DELPHI,  
(Secondary Advisor, Jan. 1994 - Dec. 1995).

## 13. B. Postdoctoral Supervision

- Edoardo Rossi, ATLAS-ITK module testing  
(Co-supervisor, November 2020 -- )  
Laurelle Veloce, ATLAS ITK module assembly  
(Co-supervisor, February 2020 -- )

### 13. B. Postdoctoral Supervision (continued)

Karola Dette, ATLAS ITK prototyping, assembly and production anagement (Supervisor, July 2017 - ... ).  
Olivier Arnaez, ATLAS SCT operations (Co-supervision, August 2017 -- ... )  
Nicola Venturi, ATLAS beam conditions monitoring (Primary Supervisor, October 2011 - January 2017).  
Matt Rudolph, ATLAS top angular distributions and vertex reconstruction (Primary supervisor, Sept 2011-August 2015).  
Justin Keung, ATLAS physics and SRF development (Joint supervision, January 2010 – August 2012).  
Ernest Jiankowski, ATLAS BCM post mortem analysis (Primary advisor, June 2009-July 2010).  
Rachid Mazini, CDF/ ATLAS Calorimeter Simulation (Joint supervision with R.S. Orr, May 2003 – July 2008).  
Kostas Kordas, B physics with the CDF detector. (Primary Advisor, January 2002 -- October 2004 ).  
Michael Riveline, B physics with the CDF detector. (Primary Advisor, February 1999 - July 2002).  
John Mayer, Jet physics with the CDF detector. (Primary Advisor, October 1998 - July 2000).  
Pierre Savard, Top physics with the CDF detector. (Secondary Advisor, September 1997 - June 2002).  
Simon Gadomski, B physics with the CDF detector. (Primary Advisor, October 1996 - July 1998).  
Paula Collins, Upgrade of DELPHI vertex detector, (Secondary Advisor, Sept. 1994 - March 1996).  
Yves Dufour, Upgrade of the DELPHI vertex detector, (Secondary Advisor, June 1991 - September 1994).

### 13. C. Other Training

#### PhD Committee Work

Cortney Sampson, PhD defense (April 1996).  
George Sganos, PhD defense (April 1996).  
Richard Teuscher, PhD defense (November 1996).  
Christian Bauer, PhD defense (May 2000).  
James de Graff, PhD defense (July 1997).  
Andreas Warburton, PhD defense (December 1997).  
Bjoern Hinrichsen, PhD defense (January 1999).  
Christian Bauer, PhD defense (May 2000).  
Robert Cropp, PhD defense (August 2000).  
Raphael Galea, PhD defense (November 2000).  
Michael Trott, PhD qualifier (May 2004).  
F. Kalen Martens, Dept. PhD defense (March 2007).  
Gabe Rosenbaum, PhD defense (October 2010).



Sing Cheung, PhD defense (August 2011).  
Bin Guo, PhD defense (August 2011).  
Peter Thompson, PhD defense (April 2013).  
Santiago Baptista, PhD qualifier (July 2014).  
Aaron Liblong, PhD qualifier (August 2014).  
Chen Zhang, PhD qualifier (May 2015).  
Ossama Abouzeid, PhD defense (September 2015).  
Rod Parsa, MSc defense (January 2017).  
Aaron Liblong, PhD defense (April 2018).  
Bianca Ciangu, PhD qualifier (May 2019).  
Matthew Basso, PhD qualifier (June 2019).  
Vincent Pascuzzi, PhD defense (August 2019).  
Robert Les, PhD defense (December 2019).  
Ata Sattari, PhD qualifier (April 2020).  
Enze Zhang, PhD qualifier (April 2020).  
Atish Sattari, PhD qualifier (May 2020).  
Randy Conklin, PhD internal defense (June 2020).

**PhD Committee Work outside University of Toronto:**

Matthew Jones, PhD defense, Carleton University, (Apr. 1997).  
Michael Riveline, PhD defense, McGill University, (Dec. 1998).  
Isabel Trigger, PhD defense, Universite de Montreal, (Sep. 1999).  
Andreas Ochs, PhD external referee, McGill University, (Aug. 2002).  
David Waller, PhD defense, Carleton University, (Jan. 2003).  
Yann Coadou, PhD defense, Universitat of Uppsala, (Oct. 2003).  
Paul Jackson, PhD defense, University of Victoria, (June 2004).  
Li Chen, PhD external referee, University of Alberta, (Aug. 2004).  
Irena Dolenc, PhD defense, Josef Stefan Institute, Slovenia (Sep 2008).  
Bostjan Macek, PhD defense, Josef Stefan Institute, Slovenia (Nov 2011).  
Felix Bachmair, PhD defense, ETH-Zurich, Switzerland (Dec. 2016).

**Summer Student training:**

Allen Atamer, Automation of diamond station (1997).  
Angela Han, Diamond detector characterisation (1998).  
Guy Weichenberg, CDF vertex detector positioning (1999).  
Herve Choi, Electroweak Physics studies with CDF (2003).  
Brian Kirby, CDF beam monitoring and feedback (2003).  
Sahand Hormoz, CDF measurement of  $W$  mass (2004).  
Josh Bendavid, ATLAS Beam Conditions monitor (2006).  
Louis Tan, ATLAS Beam Conditions monitor (2007).  
Karol Krizka, SRF cavity simulation (2010).  
Aysha Abdel Aziz, Diamond testbeam studies (2011).  
David DeMarco, Second sound studies for SRF cavity dev. (2011).  
Jeong-Yeon Yook, ATLAS DBM installation at CERN (2013).  
Robert Les, Dark matter searches with ATLAS (2015).  
Jeremy Li, Beam Abort monitoring with the ATLAS BCM(2015).  
Andrew Gomes, Tracking with the ATLAS DBM (2016).

## Administrative Positions

### **14.A Associate Chair for Graduate Studies (Physics)**

July 2014 – June 2018

Physics Graduate Curriculum committee (Chair)	2017-2018
Physics Graduate Student Liaison committee (Chair)	2017-2018
Arts and Sciences, Graduate Curriculum committee (member)	2017-2018
SGS NSERC scholarship ranking panel (member)	2017-2018
Physics Graduate Admissions committee (Chair)	2018
309 applications, 80 offers, 35+ acceptances	
Recruiting weekend – 40 participants (March 2018)	
Physics Graduate Curriculum committee (Chair)	2016-2017
Physics Graduate Student Liaison committee (Chair)	2016-2017
Arts and Sciences, Graduate Curriculum committee (member)	2016-2017
SGS NSERC scholarship ranking panel (member)	2016-2017
Physics Graduate Admissions committee (Chair)	2016
243 applications, 92 offers, 39+ acceptances	
Recruiting weekend – 50 participants (March 2017)	
Physics Graduate Curriculum committee (Chair)	2015-2016
Physics Graduate Student Liaison committee (Chair)	2015-2016
Arts and Sciences, Graduate Curriculum committee (member)	2015-2016
SGS NSERC scholarship ranking panel (member)	2015-2016
Physics Graduate Admissions committee (Chair)	2015
228 applications, 89 offers, 41+ acceptances	
Recruiting weekend – 45 participants (March 2016)	
Physics Graduate Curriculum committee (Chair)	2014-2015
Physics Graduate Student Liaison committee (Chair)	2014-2015
Arts and Sciences, Graduate Curriculum committee (member)	2014-2015
SGS NSERC scholarship ranking panel (member)	2014-2015
Physics Graduate Admissions committee (Chair)	2014
247 applications, 108 offers, 52 acceptances	
Recruiting weekend – 50 participants (March 2015)	
Physics department Internal PhD defense chair:	
Rozma Lee (July 2014)	
Federico Gomez (July 2014)	
Kemp Plumb (August 2014)	
Niall Ryan (August 2014)	
Steve Benton (September 2014)	
Ian Chan (October 2014)	

## 14.A Associate Chair for Graduate Studies (Physics) (continued)

Cathal Smyth (October 2014)  
Slava Burenkov (October 2014)  
Simon Freedman (December 2014)  
Ming Song (May 2015)  
Dan O'Keefe (June 2015)  
Ossama Abouzeid (June 2015)  
Brett Teeple (July 2015)  
Andre Erler (August 2015)  
Eric Lee (August 2015)  
Nicholas Quesada (August 2015)  
Heather Andres (September 2015)  
Matin Hallaji (September 2015)  
Matt Russo (October 2015)  
Greg Dmochowski (October 2015)  
Aaron Sutton (October 2015)  
Yao Tian (October 2015)  
Kevin Olsen (November 2015)  
Vijay Venkataraman (December 2015)  
Joseph Taenzer (January 2016)  
Ed Harris (March 2016)  
Ryan Field (July 2016)  
Zhenfu Zhang (October 2016)  
Joseph Mendonca (October 2016)  
Jennifer Yu (May 2017)  
Sylvia Swiecicki (May 2017)  
Derek Inman (June 2017)  
Sean Trim (June 2017)  
Jaspreet Sahota (June 2017)  
Felicia Kolonarji (June 2017)  
Stephen Foster (July 2017)  
Temok Salazar (September 2017)  
Raymond Goerke (November 2017)  
Heather Fong (May 2018)  
Zaheen Sadeq (May 2018)  
Maria Tibbo (May 2018)  
Pranai Vasudev (June 2018)  
Hudson Pimenta (June 2018)  
Ahmad Golarei (June 2018)

### Physics department Graduate outreach:

Sepher Ebadi – mentor -2014-15

Considering Grad school?

Mentorship panel (Oct 2014, Oct 2015, Oct 2016)

PASU panel (March 2014, April 2018)

## 14.B. University Committees

Physics Publicity and Communications, 1996-2000. Chair 1998-2000.	
Physics Web Page Design (Chair),	1997-98.
Physics Undergraduate Curriculum,	1998-2001. 2006-2008.
Search for Theoretical Particle Physics Faculty position,	2001.
Search for Experimental Particle Physics Faculty position,	2002.
Physics Department Planning,	2002 – 2006, 2012.
Physics High School Liaison,	2002 -2003.
Physics Department Promotions,	2003 - 2010.
Search for Experimental Particle Physics Faculty position,	2004.
Search for Experimental Condensed Matter Faculty position,	2005 & 2006.
Physics department salary review	2000, 2007,2008,2010,2011,2013,2015&2016
Physics Graduate admissions,	2010. 2011 & 2013
Physics Standards and Evaluations	2011, 2012
Physics Department chair search	2013.
UTM Department of Physical Sciences faculty search	2016-17.
Dean's rep for Astronomy/Statistics faculty search	2018-19.
Search for Experimental particle astrophysics Faculty position	2019-20.

## 14.C. Outside the University

- Co-chair of local organising committee for Lepton-Photon 2019 conference
- Hosted 300 participants at a 7-day meeting in the Westin Harbour Castle hotel and conference centre in downtown Toronto.
    - Chair of program advisory committee 45 invited speakers, 74 parallel session contributions and 80 poster presentations.  
<https://indico.cern.ch/event/688643/>
  - Organised catering and social events, public lecture, satellite meetings, poster competition and proceedings (<https://pos.sissa.it/367/>).

Member of the DOE Committee of Visitors  
Chair of the Detector R&D sub-panel of this committee  
September 24-26, 2016.

Member of the DOE sponsored, Fermilab Operations Review committee  
May 15-18, 2016.

- Co-chair of local organising committee for Pixel2014 conference
- Hosted 114 participants at a 5-day meeting in Niagara Falls, Canada
  - Co-chair of program advisory committee 59 invited speakers and 12 poster presentations) <http://indico.cern.ch/event/302139/>
  - Organised catering and hotel accommodations for all participants

Director of the Canadian Institute of Particle Physics (IPP) 2004 – 2013.

- Coordinate the activities of eight, faculty-level, research scientists based at institutions across the country.
- Coordinate the planning of high energy particle physics in Canada

#### 14.C. Outside the University (continued)

- Sat ex-officio on NSERC experimental review committee's, NRC Committee on TRIUMF and represent Canada at Funding Agencies for the Linear Collider (FALC).
- Member of the search committee for the new TRIUMF Director (2007).
- Member of the TRIUMF Five-Year Planning Committee (2007-2008).
- Chair of search committee for head of TRIUMF Science division (2009-10).

Member of external review committee for SUNY-Buffalo physics department (April 2009).

Member of KEK-B physics advisory panel (2009-2012).

Member of the International Commission for Future Accelerators (ICFA) (2008-2013).

- Oversees the international coordination of High Energy Physics accelerators and experiments.

Chair of local organising committee for 2010 Hadron Collider Physics conf.

- Hosted 145 participants at a 5-day meeting on campus.
- Also chaired program advisory committee and invited speakers for 58 presentations during the meeting (plus 20 poster presenters)
- Editor of eConf proceedings:  
<http://www.slac.stanford.edu/econf/C1008233/>
- Member of HCP international advisory committee (2008-2013).

Member of the US High Energy Physics Advisory Panel (HEPAP) (2007-2010).

- Three meetings a year to advise the US Department of Energy and the National Science Foundation on the physics program supported by their \$1B high energy physics budget. I am one of three foreign members of this committee.
- Member of various DOE sponsored lab review committees (SLAC, Brookhaven, Fermilab).
- Member of NSF Particle Physics grant adjudication panel (2013).

Member of the North American Linear Collider Communications and Outreach committee (2004-2007).

Elected Member of the Fermilab Users Executive Committee for a two year term from September 2003,

- Secretary of this committee providing minutes of the monthly meetings to the 2000 Fermilab users worldwide.
- Chair of the committee for 2004-05. Arranged agendas for monthly meetings, met with lab Director regularly on users issues.

Member of an NSERC review committee for underground and astrophysics experiments, December 2003.

CDF International Finance Committee, representing NSERC team leader for subatomic Physics, 2003 - 2005.

### **14.C. Outside the University (continued)**

Canadian Association of Physicists, Particle Physics Division (PPD) vice-chair (2002-03). Will be chair in (2003-04) and organize the PPD sessions at the June 2004 CAP meeting.

Member, NSERC Review committee for the BaBar-Canada project, January 2002.

Canadian Institute of Particle Physics (IPP) Council member. Elected to a 3 year term in June 2001.

International organising committee for 4<sup>th</sup> Conference on Pixel Detectors (Pixel 2000), in Genova, Italy, July 2000.

CDF Speakers selection committee, chair, 1999-2001.

LHC Machine Experiments Interface Committee, CERN, 1994-96.

DELPHI Publication Advisory Board, CERN, 1993-95.

DELPHI Co-ordination Panel, CERN, 1992-93.

# Complete list of Publications for Papers W. Trischuk

April 18, 2021

1. **“Measurement of isolated-photon plus two-jet production in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1912.09866 [hep-ex]  
DOI:10.1007/JHEP03(2020)179  
JHEP **2003**, 179 (2020)  
CERN-EP-2019-210
2. **“Measurement of soft-drop jet observables in  $pp$  collisions with the ATLAS detector at  $\sqrt{s} = 13$  TeV”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1912.09837 [hep-ex]  
DOI:10.1103/PhysRevD.101.052007  
Phys. Rev. D **101**, no. 5, 052007 (2020)  
CERN-EP-2019-269
3. **“Search for chargino-neutralino production with mass splittings near the electroweak scale in three-lepton final states in  $\sqrt{s}=13$ TeV  $pp$  collisions with the ATLAS detector”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1912.08479 [hep-ex]  
DOI:10.1103/PhysRevD.101.072001  
Phys. Rev. D **101**, no. 7, 072001 (2020)  
CERN-EP-2019-263
4. **“Beam Test Results of 3D Pixel Detectors Constructed With poly-crystalline CVD diamonds”**  
M. Reichmann *et al.* [RD42 Collaboration].  
DOI:10.22323/1.367.0080  
PoS LeptonPhoton **2019**, 080 (2019).
5. **“Measurement of the transverse momentum distribution of Drell-Yan lepton pairs in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1912.02844 [hep-ex]  
CERN-EP-2019-223
6. **“Searches for electroweak production of supersymmetric particles with compressed mass spectra in  $\sqrt{s} = 13$  TeV  $pp$  collisions with the ATLAS detector”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1911.12606 [hep-ex]  
DOI:10.1103/PhysRevD.101.052005  
Phys. Rev. D **101**, no. 5, 052005 (2020)  
CERN-EP-2019-242
7. **“Search for long-lived neutral particles produced in  $pp$  collisions at  $\sqrt{s} = 13$  TeV decaying into displaced hadronic jets in the ATLAS inner detector and muon spectrometer”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1911.12575 [hep-ex]

DOI:10.1103/PhysRevD.101.052013  
Phys. Rev. D **101**, no. 5, 052013 (2020)  
CERN-EP-2019-240

8. **“Search for direct stau production in events with two hadronic  $\tau$ -leptons in  $\sqrt{s} = 13$  TeV  $pp$  collisions with the ATLAS detector”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1911.06660 [hep-ex]  
DOI:10.1103/PhysRevD.101.032009  
Phys. Rev. D **101**, no. 3, 032009 (2020)  
CERN-EP-2019-191
9. **“Measurement of the  $Z(\rightarrow \ell^+\ell^-)\gamma$  production cross-section in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1911.04813 [hep-ex]  
DOI:10.1007/JHEP03(2020)054  
JHEP **2003**, 054 (2020)  
CERN-EP-2019-228
10. **“Measurement of the azimuthal anisotropy of charged-particle production in Xe+Xe collisions at  $\sqrt{s_{NN}} = 5.44$  TeV with the ATLAS detector”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1911.04812 [nucl-ex]  
DOI:10.1103/PhysRevC.101.024906  
Phys. Rev. C **101**, no. 2, 024906 (2020)  
CERN-EP-2019-227
11. **“ATLAS data quality operations and performance for 2015-2018 data-taking”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1911.04632 [physics.ins-det]  
DOI:10.1088/1748-0221/15/04/P04003  
JINST **15**, no. 04, P04003 (2020)  
CERN-EP-2019-207
12. **“Measurement of differential cross sections for single diffractive dissociation in  $\sqrt{s} = 8$  TeV  $pp$  collisions using the ATLAS ALFA spectrometer”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1911.00453 [hep-ex]  
DOI:10.1007/JHEP02(2020)042  
JHEP **2002**, 042 (2020)  
CERN-EP-2019-190
13. **“Transverse momentum and process dependent azimuthal anisotropies in  $\sqrt{s_{NN}} = 8.16$  TeV  $p$ +Pb collisions with the ATLAS detector”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1910.13978 [nucl-ex]  
DOI:10.1140/epjc/s10052-020-7624-4  
Eur. Phys. J. C **80**, no. 1, 73 (2020)  
CERN-EP-2019-217
14. **“Z boson production in Pb+Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV measured by the ATLAS experiment”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1910.13396 [nucl-ex]  
DOI:10.1016/j.physletb.2020.135262  
Phys. Lett. B **802**, 135262 (2020)  
CERN-EP-2019-182



15. **“Latest Results on the Radiation Tolerance of Diamond Detectors”**  
L. Bni *et al.* [Rd42 Collaboration].  
DOI:10.22323/1.367.0079  
PoS LeptonPhoton **2019**, 079 (2019).
16. **“Evidence for electroweak production of two jets in association with a  $Z\gamma$  pair in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1910.09503 [hep-ex]  
DOI:10.1016/j.physletb.2020.135341  
Phys. Lett. B **803**, 135341 (2020)  
CERN-EP-2019-206
17. **“Search for new resonances in mass distributions of jet pairs using  $139 \text{ fb}^{-1}$  of  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1910.08447 [hep-ex]  
DOI:10.1007/JHEP03(2020)145  
JHEP **2003**, 145 (2020)  
CERN-EP-2019-162
18. **“Recent Results from Polycrystalline CVD Diamond Detectors”**  
L. Bni *et al.* [RD42 Collaboration].  
arXiv:1910.07621 [physics.ins-det]
19. **“Measurement of  $J/\psi$  production in association with a  $W^\pm$  boson with  $pp$  data at 8 TeV”**  
M. Aaboud *et al.* [ATLAS Collaboration].  
arXiv:1909.13626 [hep-ex]  
DOI:10.1007/JHEP01(2020)095  
JHEP **2001**, 095 (2020)  
CERN-EP-2018-352
20. **“Search for the Higgs boson decays  $H \rightarrow ee$  and  $H \rightarrow e\mu$  in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1909.10235 [hep-ex]  
DOI:10.1016/j.physletb.2019.135148  
Phys. Lett. B **801**, 135148 (2020)  
CERN-EP-2019-184
21. **“Combined measurements of Higgs boson production and decay using up to  $80 \text{ fb}^{-1}$  of proton-proton collision data at  $\sqrt{s} = 13$  TeV collected with the ATLAS experiment”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1909.02845 [hep-ex]  
DOI:10.1103/PhysRevD.101.012002  
Phys. Rev. D **101**, no. 1, 012002 (2020)  
CERN-EP-2019-097
22. **“Measurement of azimuthal anisotropy of muons from charm and bottom hadrons in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1909.01650 [nucl-ex]  
DOI:10.1103/PhysRevLett.124.082301  
Phys. Rev. Lett. **124**, no. 8, 082301 (2020)  
CERN-EP-2019-166
23. **“Performance of electron and photon triggers in ATLAS during LHC Run 2”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1909.00761 [hep-ex]  
DOI:10.1140/epjc/s10052-019-7500-2

- Eur. Phys. J. C **80**, no. 1, 47 (2020)  
CERN-EP-2019-169
24. **“A study of the radiation tolerance of poly-crystalline and single-crystalline CVD diamond to 800 MeV and 24 GeV protons”**  
L. Bni *et al.*  
DOI:10.1088/1361-6463/ab37c6  
J. Phys. D **52**, 465103 (2019).
  25. **“Search for flavour-changing neutral currents in processes with one top quark and a photon using  $81 \text{ fb}^{-1}$  of  $pp$  collisions at  $\sqrt{s} = 13 \text{ TeV}$  with the ATLAS experiment”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1908.08461 [hep-ex]  
DOI:10.1016/j.physletb.2019.135082  
Phys. Lett. B **800**, 135082 (2020)  
CERN-EP-2019-155
  26. **“Search for electroweak production of charginos and sleptons decaying into final states with two leptons and missing transverse momentum in  $\sqrt{s} = 13 \text{ TeV}$   $pp$  collisions using the ATLAS detector”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1908.08215 [hep-ex]  
DOI:10.1140/epjc/s10052-019-7594-6  
Eur. Phys. J. C **80**, no. 2, 123 (2020)  
CERN-EP-2019-106
  27. **“Measurements of top-quark pair differential and double-differential cross-sections in the  $\ell$ +jets channel with  $pp$  collisions at  $\sqrt{s} = 13 \text{ TeV}$  using the ATLAS detector”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1908.07305 [hep-ex]  
DOI:10.1140/epjc/s10052-019-7525-6  
Eur. Phys. J. C **79**, no. 12, 1028 (2019)  
CERN-EP-2019-149
  28. **“Search for non-resonant Higgs boson pair production in the  $bbl\nu\nu$  final state with the ATLAS detector in  $pp$  collisions at  $\sqrt{s} = 13 \text{ TeV}$ ”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1908.06765 [hep-ex]  
DOI:10.1016/j.physletb.2019.135145  
Phys. Lett. B **801**, 135145 (2020)  
CERN-EP-2019-143
  29. **“Measurement of angular and momentum distributions of charged particles within and around jets in Pb+Pb and  $pp$  collisions at  $\sqrt{s_{\text{NN}}} = 5.02 \text{ TeV}$  with the ATLAS detector”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1908.05264 [nucl-ex]  
DOI:10.1103/PhysRevC.100.064901  
Phys. Rev. C **100**, no. 6, 064901 (2019)  
CERN-EP-2019-158
  30. **“Search for bottom-squark pair production with the ATLAS detector in final states containing Higgs bosons,  $b$ -jets and missing transverse momentum”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1908.03122 [hep-ex]  
DOI:10.1007/JHEP12(2019)060  
JHEP **1912**, 060 (2019)  
CERN-EP-2019-142
  31. **“Measurement of the inclusive isolated-photon cross section in  $pp$  collisions at  $\sqrt{s} = 13 \text{ TeV}$  using  $36 \text{ fb}^{-1}$  of ATLAS data”**

- G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1908.02746 [hep-ex]  
DOI:10.1007/JHEP10(2019)203  
JHEP **1910**, 203 (2019)  
CERN-EP-2019-136
32. **“Latest results on radiation tolerance of diamond detectors”**  
A. Oh *et al.* [RD42 Collaboration].  
DOI:10.22323/1.340.0597  
PoS ICHEP **2018**, 597 (2019).
33. **“Electron and photon performance measurements with the ATLAS detector using the 20152017 LHC proton-proton collision data”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1908.00005 [hep-ex]  
DOI:10.1088/1748-0221/14/12/P12006  
JINST **14**, no. 12, P12006 (2019)  
CERN-EP-2019-145
34. **“Measurement of  $K_S^0$  and  $\Lambda^0$  production in  $t\bar{t}$  dileptonic events in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1907.10862 [hep-ex]  
DOI:10.1140/epjc/s10052-019-7512-y  
Eur. Phys. J. C **79**, no. 12, 1017 (2019)  
CERN-EP-2019-112
35. **“Measurement of  $W^\pm$  boson production in Pb+Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV with the ATLAS detector”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1907.10414 [nucl-ex]  
DOI:10.1140/epjc/s10052-019-7439-3  
Eur. Phys. J. C **79**, no. 11, 935 (2019)  
CERN-EP-2019-123
36. **“Search for displaced vertices of oppositely charged leptons from decays of long-lived particles in pp collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1907.10037 [hep-ex]  
DOI:10.1016/j.physletb.2019.135114  
Phys. Lett. B **801**, 135114 (2020)  
CERN-EP-2019-139
37. **“Measurement of the inclusive cross-section for the production of jets in association with a Z boson in proton-proton collisions at 8 TeV using the ATLAS detector”**  
G. Aad *et al.* [ATLAS Collaboration].  
arXiv:1907.06728 [hep-ex]  
DOI:10.1140/epjc/s10052-019-7321-3  
Eur. Phys. J. C **79**, no. 10, 847 (2019)  
CERN-EP-2019-133
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156. **“Search for pair production of heavy vector-like quarks decaying into high- $p_T$   $W$  bosons and top quarks in the lepton-plus-jets final state in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector”**  
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338. **“Search for Minimal Supersymmetric Standard Model Higgs bosons  $H/A$  and for a  $Z'$  boson in the  $\tau\tau$  final state produced in  $pp$  collisions at  $\sqrt{s} = 13 \text{ TeV}$  with the ATLAS Detector”**  
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