Sergey Senkin

	Dr Sergey Senkin January 5, 1988	-	Russian Federation Arkalyk, Kazakhstan
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2008-2010	Education PhD in Particle Physics, Universit MSc in Applied Physics and Mat BSc in Applied Physics and Mat	ths, Moscow In	
	Experience		
	Research Postdoctoral Fellow, International Mutational signature analysis for the Mu	0 0	,
	Postdoctoral Researcher, LPC Clermont Ferrand, France. tt+X Dark Matter search with the ATLAS detector at the Large Hadron Collider, CERN		
•	Postdoctoral Researcher, University of Bristol, UK. tt+X cross section measurement at the CMS detector at the Large Hadron Collider, CERN		
Oct 2010–	PhD Student, University of Bristol, UK; CERN. Top quark mass and tt+X cross section measurement at CMS in the lepton+jets channel		
Sep 2009–	Research Assistant, Joint Institute for Nuclear Research, Dubna, Russia. CMS dimuon High-Level Trigger efficiency studies		
Sep 2008–	Research Assistant, Texas A&M University, College Station, TX, USA. Search for the lightest NMSSM Higgs boson $(h_1 \rightarrow a_1 a_1 \rightarrow 4\mu)$		
Jun 2007–	Intern Student, Fermi National Ac Tevatron turn-by-turn optics fit using M	celerator Labora	
	Service work		
Autumn 2016– present	Data Quality Leader, CERN, Gen Tile Hadronic Calorimeter perfomance at	*	1.
Summer 2011– Autumn 2012	HLT Developer/Shifter, CERN, C Top trigger developer; ECAL Endcaps H	*	
	Teaching		
Spring 2011, Spring 2013	Tutor , University of Bristol, School Tutorials in Maths and Particle Physics	,	
Spring 2009	Teaching Assistant , Texas A&M U Tutorials and labs for freshman General		ge Station, TX, USA.

Personal info

Editorial activities

Jun 2017– Invited Editorial Board member for the ATLAS Collaboration publication

Mar 2018 "Operation and performance of the ATLAS Tile Calorimeter in Run 1", CERN.

Relevant training

August 2012 CTEQ-Fermilab Summer School on QCD and Electroweak Phenomenology, Pontificia Universidad Católica del Perú, Lima, Peru.

Autumn 2011 RAL HEP Summer School, Rutherford Appleton Laboratory, Abingdon, UK.

Other experience

Dec 2014- Gap year for world travel.

July 2015 Explored the cultures and nature of China, Tibet, Nepal, India, Burma, Thailand, Indonesia, Vietnam, Australia, New Zealand, Canada and Cuba.

Languages

English Fluent French Working

Russian Native

Computer skills

OS Linux/Unix, Mac OS X programming C/C++, python, R

scientific CMSSW, Geant4, Mathematica revision control Git, SVN, CVS

 $\label{eq:continuous} big\ data\ \ \text{GRID},\ \text{Hadoop} \qquad \qquad typography\ \ \text{LAT}_{E\!X},\ \text{OpenOffice}$

IDE Eclipse other skills ROOT, SciPy/NumPy, matplotlib

Conference and workshop presentations

22 Jun 2017 A Complete Readout Chain of the ATLAS Tile Calorimeter for the HL-LHC: from FATALIC Front-End Electronics to Signal Reconstruction,

ANIMMA conference, Liège, Belgium

5 May 2017 Search for New Physics with same-sign leptons,

Top LHC France Conference, Marseille, France

18 Jun 2013 Measurement of Global Distributions in Top Pair Events with CMS at the LHC, Postgraduate Conference, Bristol, UK

9 Apr 2013 Measurement of MET, HT and other global distributions in top pair events, $IoP\ Conference,\ Liverpool,\ UK$

Honours and awards

2010 University of Bristol Postgraduate Research Scholarship

2008 TAMU Department of Physics Fellowship

2004 Yuri Gagarin award in "Study and scientific research" category

Russian National Physics and Mathematics Olympiads (region round):

2004 1st diploma in physics and mathematics

2003 2nd diploma in physics, 3rd in mathematics

Scientific and other interests

- o Data science, genomics data analysis, search for new phenomena, IT
- o Machine learning, AI, sustainable development, health physics, neuroscience
- o Alpine skiing, mountain biking, scuba diving, climbing, surfing, travelling

Publications

- o Google Scholar profile: https://goo.gl/JwwVa2
- o INSPIRE HEP profile: http://inspirehep.net/author/profile/S.Senkin.1

Publications with significant contribution

- 2018 ATLAS Collaboration, "Search for new phenomena in events with same-charge leptons and b-jets in pp collisions at $\sqrt{s}=13$ TeV with the ATLAS detector", CERN-EP-2018-171, submitted to JHEP
- 2016 ATLAS Collaboration, "Search for new phenomena using events with b-jets and a pair of same-charge leptons in 3.2 fb⁻¹ of pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector", ATLAS-CONF-2016-032, ATLAS conference note
- 2016 CMS Collaboration, "Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at $\sqrt{s} = 7$ and 8 TeV", DOI:10.1103/PhysRevD.94.052006, Phys. Rev. D
- 2012 CMS Collaboration, "Measurement of the top-quark mass in $t\bar{t}$ events with lepton+jets final states in pp collisions at $\sqrt{s}=7$ TeV", DOI:10.1007/JHEP12(2012)105, JHEP
- 2010 Alexander Belyaev, Jim Pivarski, Alexei Safonov, Sergey Senkin, and Aysen Tatarinov, "LHC discovery potential of the lightest NMSSM Higgs boson in $h_1 \rightarrow a_1 a_1 \rightarrow 4\mu$ channel", DOI:10.1103/PhysRevD.81.075021, Phys.~Rev.~D

Publications with contribution via the High-Level Trigger work

- 2013 CMS Collaboration, "Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC", DOI:10.1007/JHEP05(2013)145, JHEP
- 2013 CMS Collaboration, "Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV with lepton+jets final states", DOI:10.1016/j.physletb.2013.02.021, Physics Letters B
- 2013 CMS Collaboration, "Measurement of differential top-quark pair production cross sections in pp collisions at $\sqrt{s}=7$ TeV", DOI:10.1140/epjc/s10052-013-2339-4, European Physical Journal C
- 2013 CMS Collaboration, "Search for heavy quarks decaying into a top quark and a W or Z boson using lepton + jets events in pp collisions at $\sqrt{s} = 7$ TeV", DOI:10.1007/JHEP01(2013)154, JHEP
- 2012 CMS Collaboration, "Measurement of the top-quark mass in $t\bar{t}$ events with lepton+jets final states in pp collisions at $\sqrt{s}=7$ TeV", DOI:10.1007/JHEP12(2012)105, JHEP
- 2012 CMS Collaboration, "Search for pair produced fourth-generation up-type quarks in pp collisions at $\sqrt{s} = 7$ TeV with a lepton in the final state", DOI:10.1016/j.physletb.2012.10.038, $Physics\ Letters\ B$
- 2012 CMS Collaboration, "Inclusive and differential measurements of the $t\bar{t}$ charge asymmetry in proton-proton collisions at $\sqrt{s}=7$ TeV", DOI:10.1016/j.physletb.2012.09.028, Physics Letters B
- 2012 CMS Collaboration, "Search for charge-asymmetric production of W' bosons in top pair + jet events from pp collisions at $\sqrt{s}=7$ TeV", DOI:10.1016/j.physletb.2012.09.048, $Physics\ Letters\ B$
- 2012 CMS Collaboration, "Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at $\sqrt{s}=7$ TeV", DOI:10.1016/j.physletb.2012.01.078, $Physics\ Letters\ B$
- 2012 CMS Collaboration, "Measurement of the mass difference between top and antitop quarks", DOI:10.1007/JHEP06(2012)109, JHEP

Referees

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Last Updated

December 10, 2018 https://github.com/senkin/CV

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