Full Name Dr Sergey Senkin Date of Birth January 5, 1988 Contact Details Address 54 St Michael's Hill, Bristol BS2 8DX, UK Mobile Phone +44 (0) 7796 223597 (UK), +41 79 289 8398 (swiss) Email s.senkin@gmail.com Skype s.senkin Education 2010-2014 PhD in Particle Physics, University of Bristol. 2008-2010 MSc in Applied Physics and Maths, Moscow Institute of Physics and Technology. 2004-2008 BSc in Applied Physics and Maths, Moscow Institute of Physics and Technology. Experience Research May 2014- Postdoctoral Research Assistant, University of Bristol, UK. Dec 2014 tt+X cross section measurement at CMS in the lepton+jets channel Autumn 2010- PhD Student, University of Bristol, UK.
Address 54 St Michael's Hill, Bristol BS2 8DX, UK Mobile Phone +44 (0) 7796 223597 (UK), +41 79 289 8398 (swiss) Email s.senkin@gmail.com Skype s.senkin Education 2010–2014 PhD in Particle Physics, University of Bristol. 2008–2010 MSc in Applied Physics and Maths, Moscow Institute of Physics and Technology. 2004–2008 BSc in Applied Physics and Maths, Moscow Institute of Physics and Technology. Experience Research May 2014– Postdoctoral Research Assistant, University of Bristol, UK. Dec 2014 tt+X cross section measurement at CMS in the lepton+jets channel
Mobile Phone +44 (0) 7796 223597 (UK), +41 79 289 8398 (swiss) Email s.senkin@gmail.com Skype s.senkin Education 2010-2014 PhD in Particle Physics, University of Bristol. 2008-2010 MSc in Applied Physics and Maths, Moscow Institute of Physics and Technology. 2004-2008 BSc in Applied Physics and Maths, Moscow Institute of Physics and Technology. Experience Research May 2014- Postdoctoral Research Assistant, University of Bristol, UK. Dec 2014 tt+X cross section measurement at CMS in the lepton+jets channel
Email s.senkin@gmail.com Skype s.senkin Education 2010–2014 PhD in Particle Physics, University of Bristol. 2008–2010 MSc in Applied Physics and Maths, Moscow Institute of Physics and Technology. 2004–2008 BSc in Applied Physics and Maths, Moscow Institute of Physics and Technology. Experience Research May 2014– Postdoctoral Research Assistant, University of Bristol, UK. Dec 2014 tt+X cross section measurement at CMS in the lepton+jets channel
Education 2010–2014 PhD in Particle Physics, University of Bristol. 2008–2010 MSc in Applied Physics and Maths, Moscow Institute of Physics and Technology. 2004–2008 BSc in Applied Physics and Maths, Moscow Institute of Physics and Technology. Experience Research May 2014– Postdoctoral Research Assistant, University of Bristol, UK. Dec 2014 tt+X cross section measurement at CMS in the lepton+jets channel
2010–2014 PhD in Particle Physics, University of Bristol. 2008–2010 MSc in Applied Physics and Maths, Moscow Institute of Physics and Technology. 2004–2008 BSc in Applied Physics and Maths, Moscow Institute of Physics and Technology. Experience Research May 2014– Postdoctoral Research Assistant, University of Bristol, UK. Dec 2014 tt+X cross section measurement at CMS in the lepton+jets channel
2008–2010 MSc in Applied Physics and Maths, Moscow Institute of Physics and Technology. 2004–2008 BSc in Applied Physics and Maths, Moscow Institute of Physics and Technology. Experience Research May 2014– Postdoctoral Research Assistant, University of Bristol, UK. Dec 2014 tt+X cross section measurement at CMS in the lepton+jets channel
2004–2008 BSc in Applied Physics and Maths, Moscow Institute of Physics and Technology. Experience Research May 2014— Postdoctoral Research Assistant, University of Bristol, UK. Dec 2014 tt+X cross section measurement at CMS in the lepton+jets channel
Experience Research May 2014— Postdoctoral Research Assistant, University of Bristol, UK. Dec 2014 tt+X cross section measurement at CMS in the lepton+jets channel
Research May 2014— Postdoctoral Research Assistant, University of Bristol, UK. Dec 2014 tt+X cross section measurement at CMS in the lepton+jets channel
May 2014 – Postdoctoral Research Assistant, University of Bristol, UK. Dec 2014 – tt+X cross section measurement at CMS in the lepton+jets channel
Dec 2014 $t\bar{t}+X$ cross section measurement at CMS in the lepton+jets channel
Autumn 2010– PhD Student, University of Bristol, UK.
Spring 2014 Top quark mass and tt+X cross section measurement at CMS in the lepton+jets channel
Autumn 2009— Research Assistant, Joint Institute for Nuclear Research, Dubna, Russia. Summer 2010 CMS dimuon High-Level Trigger efficiency studies
Autumn 2008– Research Assistant, Texas A&M University, College Station, TX, USA. Spring 2009 Search for the lightest NMSSM Higgs boson $(h_1 \rightarrow a_1 a_1 \rightarrow 4\mu)$
Summer 2007 Intern Student, Fermi National Accelerator Laboratory, Batavia, IL, USA. Tevatron turn-by-turn optics fit using MAD-X
Service work
Summer 2011— HLT Developer/Shifter , CERN, Geneva, Switzerland. Autumn 2012 Top trigger developer; ECAL Endcaps High-Voltage System on-call expert
November CSC Shifter, CERN, LHC, CMS detector, Point 5, Cessy, France.
2008 Cathode Strip Chambers detector subsystem maintenance
Teaching
Spring 2011, Tutor , University of Bristol, School of Physics, Bristol, UK. Spring 2013 Tutorials in Maths and Particle Physics for L1 and L3 students
Spring 2009 Teaching Assistant , Texas A&M University, College Station, TX, USA. Tutorials and labs for freshman General Physics course
March 2005 Physics Grader , Moscow Institute of Physics and Technology, Dolgoprudny, Russia. National Physics Olympiad for high school students

Relevant training

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

Languages

English Fluent TOEFL iBT score: 111 out of 120 (November 2009)

Russian Native

Computer Skills

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

scientific CMSSW, Geant4, Mathematica $revision\ control$ Git, SVN, CVS IDE Eclipse typography \LaTeX , OpenOffice

other skills GRID, ROOT, rootpy, matplotlib

— Conference and Workshop Presentations

- 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, $IoP\ Conference,\ Liverpool,\ UK$
- 8 Jan 2013 Measurement of MET, HT and other global distributions in top pair events, CMS UK Collaboration meeting, Abingdon, UK
- 14 Jun 2012 Validation study of Particle Flow Jet Energy Corrections for top paths, Trigger Studies Group meeting, CERN
- 15 May 2012 Jets at High-Level Trigger for Top Physics, Top~Quark~PAG~meeting,~CERN
- 12 Dec 2011 Using HitFit kinematic fitter in lepton+jets top mass analyses, Workshop on kinematic fitting, CERN

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" nomination

Russian National Physics and Mathematics Olympiads (region round):

- 2004 1st diploma in physics and mathematics
- 2003 2nd diploma in physics, 3rd in mathematics

Scientific Interests

- o Particle physics, detector physics, nuclear medicine, search for new phenomena
- Computer science, IT

Other Interests

- Alpine skiing, mountain biking, scuba diving, surfing, travelling
- Playing musical instruments (guitar/piano)

Publications with significant contribution

- 2013 CMS Collaboration, "Measurement of missing transverse energy and other event-level observables in top pair events at $\sqrt{s}=8$ TeV", CMS-PAS-TOP-12-042, paper in preparation
- 2013 CMS Collaboration, "Measurement of missing transverse energy in top pair events at $\sqrt{s} = 7$ TeV", CMS-PAS-TOP-12-019, paper in preparation
- 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 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

Professor Greg Heath

School of Physics University of Bristol H.H. Wills Physics Laboratory Tyndall Avenue, Bristol BS8 1TL Email: greg.heath@bristol.ac.uk Tel.: +44 (0) 117 928 8947

Dr Stéphanie Beauceron

CERN
CH-1211
Geneva 23
Switzerland
Email: stephanie.beauceron@cern.ch

Tel.: +41 22 76 71558

Last Updated

June 11, 2015 https://github.com/senkin/CV

Dr Joel Goldstein

School of Physics University of Bristol H.H. Wills Physics Laboratory Tyndall Avenue, Bristol BS8 1TL Email: joel.goldstein@bristol.ac.uk

Tel.: +44 (0) 117 928 8772