

## DMITRI TSYBYCHEV

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Citation Index: 133 (h-hep, [inspirehep.net](http://inspirehep.net)); 70 (h-index, Web Of Science)

### Professional Preparation

Moscow State University	Physics	MS	1997
University of Florida, Gainesville	Physics	Ph.D.	2004

### Appointments

Stony Brook University, Stony Brook, NY Associate Professor of Physics	2015 – present
Stony Brook University, Stony Brook, NY Assistant Professor of Physics	2009 – 2014
Stony Brook University, Stony Brook, NY Assistant Research Professor of Physics	2008 – 2009
Stony Brook University, Stony Brook, NY Postdoctoral Research Associate	2004 – 2008

### Synergistic activities:

Reviewer of NSF CAREER grant proposals.  
Member of ATLAS internal Editorial Board  
Stony Brook University representative to the ATLAS Institutional Board  
Stony Brook University representative to the ATLAS Pixel Institutional Board  
Analysis Coordinator of WW/WZ cross section measurement group in semileptonic decay channel.  
Member of  $D\bar{0}$  internal Editorial Board  
US ATLAS Speakers Committee 2011 – 2012  
US ATLAS Analysis Support panel 2011 – 2012  
Co-leader of the B-physics group at  $D\bar{0}$  experiment, 2007 – 2009.  
Co-leader of the silicon detector group at  $D0$  experiment 2005 – 2007.

### Awards and Honors:

DOE US ATLAS Fellow, 2016.  
High Energy and Particle Physics Prize of the European Physical Society (as a member of ATLAS Collaboration), 2013.  
NSF CAREER Award, 2012.  
DOE US ATLAS Fellow, 2011.

### Advisees:

#### Graduate students:

Burton DeWilde	PhD 2012, Industry
John Stupak	PhD 2012, Assistant Professor, University of Oklahoma, USA
David Puldon	PhD 2014, Square Inc
Benjamin Beamer	MS 2015, Industry
Aungshuman Zaman	PhD 2016, Lecturer at Stony Brook University, USA
HyeYun Park	PhD 2018 (expected)

### Postdoctoral research fellows supervised:

Brian Lindquist

Haifeng Li, (Assistant Professor, Shandong University, China)

Carolina Deluca Silberberg (now at NIKHEF)

Erik Devetak (now technical specialist in Autonomy, an HP company)

### Selected Publications:

I am an author of more than 1000 articles published in peer reviewed journals as a member of ATLAS, CDF and D0 scientific collaboration. Below are a few selected publications.

1. "Search for the dimuon decay of the Higgs boson in  $pp$  collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector", G.Aad et al., [ATLAS Collaboration], *Phys. Rev. Lett.*, (2017);
2. "Search for anomalous electroweak production of  $WW/WZ$  in association with a high-mass di-jet system in proton-proton collisions at  $\sqrt{s} = 8$  TeV with the ATLAS detector", G.Aad et al., [ATLAS Collaboration], *Phys. Rev. D* **95**, 032001 (2017);
3. "Measurements of the Higgs boson production and decay rates and coupling strengths using  $pp$  collision data at  $\sqrt{s}=7$  and 8 TeV in the ATLAS experiment", G.Aad et al., [ATLAS Collaboration], *EPJC* (2016);
4. "Search for a high-mass Higgs boson decaying to a  $W$  boson pair in  $pp$  collisions at  $\sqrt{s}=8$  TeV with the ATLAS detector", G.Aad et al., [ATLAS Collaboration], *JHEP* (2016);
5. "Searches for heavy diboson resonances in proton-proton collisions at  $\sqrt{s} = 13$  TeV with the ATLAS detector", G.Aad et al., [ATLAS Collaboration], *JHEP* **09** (2016) 173;
6. "Measurement of the combined  $WW$  and  $WZ$  production cross section in the semileptonic final state in proton-proton collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector", G.Aad et al., [ATLAS Collaboration], *JHEP* **01**(2015) 049;
7. "Measurements of Higgs boson production and couplings in the four-lepton channel in  $pp$  collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector", G.Aad et al., [ATLAS Collaboration], *Phys. Rev. D* (2015);
8. "Fiducial and differential cross sections of Higgs boson production measured in the four-lepton decay channel in  $pp$  collisions at  $\sqrt{s}=8$  TeV with the ATLAS detector", G.Aad et al., [ATLAS Collaboration], *Phys. Lett. B*, (2014);
9. "Measurement of the Higgs boson mass from the  $H \rightarrow \gamma\gamma$  and  $H \rightarrow ZZ^* \rightarrow 4\ell$  channels in  $pp$  collisions at center-of-mass energies of 7 and 8 TeV with the ATLAS detector", G.Aad et al., [ATLAS Collaboration], *Phys. Rev. D*, (2014)
10. "Search for the Standard Model Higgs boson in  $H \rightarrow \mu^+\mu^-$  decays with the ATLAS detector", G.Aad et al., [ATLAS Collaboration], *Phys. Lett. B* **738** (2014) 68-86;
11. "Study of jets produced in association with a  $W$  boson in  $pp$  collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector", G.Aad et al., [ATLAS Collaboration], *Phys. Rev. D* **85**, 092002, (2012);
12. "Recent results from ATLAS and CMS on higgs, supersymmetry and physics beyond the Standard Model searches" S. Nahn and D. Tsybychev, *Int. J. Mod. Phys. A* **28**,, 1330026, (2013);
13. "Prototype ATLAS IBL modules using the FE-I4A front-end readout chip", J. Albert et al., [ATLAS IBL Collaboration], *JINST* **7**, 11010, (2012);
14. "Test beam results of 3D silicon pixel sensors for the ATLAS upgrade", P. Grenier et al., *Nucl. Instrum. Meth. A* **638**, 33-40, (2011);
15. "Direct Limits on the  $B_s$  Oscillation Frequency", V. M. Abazov et al., [DØ Collaboration], *Phys. Rev. Lett.* **97** (2006), 021802;

16. "*The layer 0 inner silicon detector of the D0 experiment*", R. Angstadt et. al. Nucl. Instrum. Meth. A **622**, 298 (2010)