

# Wan-Ching (Tammy) Yang

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## CONFERENCES & SEMINARS

**25-27 January 2011**

**Annual Meeting of the Physical Society of ROC in Taipei**

E14 KOTO Status Report

**13-17 August 2010**

**The 11th International Workshop on Tau Lepton Physics, Manchester, UK**

Search for Standard Model and Beyond Standard Model Higgs bosons in di-tau final state at DØ

**29-31 July 2010**

**Higgs Hunting - Tevatron and first LHC Results, Orsay, France, Talk at Young Scientist Forum**

Beyond the Standard Model Higgs Searches at DØ

**31 May 2010**

**National Taiwan University, Taipei, Seminar**

Search for MSSM Neutral Higgs in Tau Final States at DØ

**3 December 2009**

**Bohr Lunch Seminar, University of Manchester**

Search for MSSM Neutral Higgs in Tau Final States at DØ

**14-25 July 2008**

**34th International Conference on High Energy Physics at Philadelphia, USA (ICHEP 2008), Poster**

Search for MSSM Higgs Boson Decaying to Tau Pairs at DØ

<http://arxiv.org/pdf/0810.3219>

**11-15 April 2008**

**American Physical Society Meeting at St. Louis, USA, Parallel Session Talk**

Search for MSSM Higgs Boson Decaying to Tau Pairs at DØ

**2-14 September 2007**

**RAL Summer School at Oxford, UK, Poster**

Search for MSSM Higgs Boson Decaying to Tau Pairs at DØ

**2006-present**

**DØ Meetings**

Frequent presentations during regular working meetings and at collaboration meetings

PUBLICATION  
LISTS

## Fermilab Thesis

Ph.D. Thesis (advisor: Stefan Soldner-Rembold) *Search for MSSM Higgs Bosons in Tau Final States with the DØ Detector.*

**FERMILAB-THESIS-2010-46, Sep 2010.**

## DØ Journal Papers (primary author)

DØ Collaboration (V.M. Abazov et al.),

*Search for Higgs Bosons Decaying to Tau Pairs in  $p\bar{p}$  Collisions with the DØ Detector*

**Phys. Rev. Lett. 101 (2009).**

<http://arxiv.org/abs/0805.2491>

## Public DØ Conference Notes (primary author)

J. Hays et al.,

*Combined CDF and DØ Upper Limits on MSSM Higgs Boson Production in Tau-Tau Final States with up to  $2.2\text{ fb}^{-1}$  of Data*

DØ Note **6036-CONF**

J. Hays et al.,

*Combined Upper Limits on MSSM Higgs Boson Production with up to  $2.6\text{ fb}^{-1}$  of Data at DØ*

DØ Note **5935-CONF**

W. Yang, S. Söldner-Rembold, M. Owen, A. Patwa, and M. Titov,

*Search for MSSM Higgs Boson Production in the Di-tau Final State with  $L=2.2\text{ fb}^{-1}$  at the DØ Detector*

DØ Note **5740-CONF**

W. Yang, S. Söldner-Rembold, M. Owen, and A. Patwa,

*Search for MSSM Higgs Boson Production in the Decay  $h \rightarrow \tau\tau \rightarrow \tau_\mu + \tau_{had}$  with the DØ Detector at  $\sqrt{s}=1.96\text{ TeV}$*

DØ Note **5728-CONF**

## Proceedings

Wan-Ching Yang on behalf of the DØ Collaboration,

*Search for Standard Model and Beyond Standard Model Higgs bosons in di-tau final state at DØ*

The 11th International Workshop on Tau Lepton Physics, Manchester, UK

Wan-Ching Yang on behalf of the DØ Collaboration,

*Search for MSSM Higgs Boson Production in the Di-tau Final State with  $L=2.2\text{ fb}^{-1}$  at the DØ Detector*

ICHEP08, Philadelphia, USA

## Internal DØ Notes

W. Yang, S. Söldner-Rembold, M. Owen, and A. Patwa,

*Search for MSSM Higgs Boson Production in the Decay  $h \rightarrow \tau\tau \rightarrow \tau_\mu + \tau_{had}$  with the DØ Detector at  $\sqrt{s}=1.96\text{ TeV}$*

DØ Internal Note **5708**

M. Owen, W. Yang, S. Söldner-Rembold and M. Titov,  
*Combination of p17  $h \rightarrow \tau\tau$  Search Results*  
DØ Internal Note **5578**

M. Owen, W. Yang and S. Söldner-Rembold,  
*Search for Neutral Higgs Boson in the Decay Channel  $\tau_e \tau_{had}$  with p17 Data*  
DØ Internal Note **5457**

## Other DØ Journal Papers

I am a DØ author since June 2008. During this time, the collaboration has published 67 papers in Physical Letters **B**, Physical Review Letter, and Physical Review **D**. A full list is given below.

DØ Collaboration (V.M. Abazov et al.),  
*Search for  $WH$  associated production in  $5.3 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions at the Fermilab Tevatron.*  
**Phys.Lett.B698:6-13 (2011).**  
<http://arxiv.org/pdf/1012.0874>

DØ Collaboration (V.M. Abazov et al.),  
*Measurement of the  $W$  boson helicity in top quark decays using  $5.4 \text{ fb}^{-1}$  of  $p\bar{p}$  collision data.*  
**Phys.Rev.D83:032009 (2011).**  
<http://arxiv.org/pdf/1011.6549>

DØ Collaboration (V.M. Abazov et al.),  
*Search for neutral Higgs bosons in the multi- $b$ -jet topology in  $5.2 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$*   
**Phys.Lett.B698:97-104 (2011).**  
<http://arxiv.org/pdf/1011.1931>

DØ Collaboration (V.M. Abazov et al.),  
*A measurement of the ratio of inclusive cross sections  $\sigma(p\bar{p} \rightarrow Z + b \text{ jet}) / \sigma(p\bar{p} \rightarrow Z + \text{jet})$  at  $\sqrt{s} = 1.96 \text{ TeV}$*   
**Phys.Rev.D83:031105 (2011).**  
<http://arxiv.org/pdf/1010.6203>

DØ Collaboration (V.M. Abazov et al.),  
*Search for single vector-like quarks in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$*   
**Phys.Rev.Lett.106:081801 (2011).**  
<http://arxiv.org/pdf/1010.1466>

DØ Collaboration (V.M. Abazov et al.),  
*Precise study of the  $Z/\gamma^*$  boson transverse momentum distribution in  $p\bar{p}$  collisions using a novel technique*  
**Phys.Rev.Lett.106:122001 (2011).**  
<http://arxiv.org/pdf/1010.0262>

DØ Collaboration (V.M. Abazov et al.),  
*Search for pair production of the scalar top quark in the electron+muon final state*

**Phys.Lett.B696:321-327 (2011).**

<http://arxiv.org/pdf/1009.5950>

DØ Collaboration (V.M. Abazov et al.),  
*Determination of the width of the top quark*

**Phys.Rev.Lett.106:022001 (2011).**

<http://arxiv.org/pdf/1009.5686>

DØ Collaboration (V.M. Abazov et al.),

*Measurement of  $t\bar{t}$  production in the tau + jets topology using  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys.Rev.D82:071102 (2010).**

<http://arxiv.org/pdf/1008.3564>

DØ Collaboration (V.M. Abazov et al.),

*Search for New Fermions ('Quirks') at the Fermilab Tevatron Collider*

**Phys.Rev.Lett.105:211803 (2010).**

<http://arxiv.org/pdf/>

DØ Collaboration (V.M. Abazov et al.),

*Search for events with leptonic jets and missing transverse energy in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys.Rev.Lett.105:211802 (2010).**

<http://arxiv.org/pdf/1008.3356>

DØ Collaboration (V.M. Abazov et al.),

*Search for diphoton events with large missing transverse energy in  $6.3 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys.Rev.Lett.105:221802, (2010).**

<http://arxiv.org/pdf/1008.2133>

DØ Collaboration (V.M. Abazov et al.),

*Search for sneutrino production in  $e\mu$  final states in  $5.3 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys.Rev.Lett.105:191802 (2010).**

<http://arxiv.org/pdf/1007.4835>

DØ Collaboration (V.M. Abazov et al.),

*Search for  $ZH \rightarrow \ell^+ \ell^- b\bar{b}$  production in  $4.2 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys.Rev.Lett.105:251801 (2010).**

<http://arxiv.org/pdf/>

DØ Collaboration (V.M. Abazov et al.),

*Evidence for an anomalous like-sign dimuon charge asymmetry*

**Phys. Rev. Lett. 105 (2010).**

<http://arxiv.org/pdf/1007.0395>

DØ Collaboration (V.M. Abazov et al.),

*Search for flavour changing neutral currents via quark-gluon couplings in single top quark production using  $2.3 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions*

**Phys. Lett. B 693 (2010).**

<http://arxiv.org/pdf/1006.3575>

DØ Collaboration (V.M. Abazov et al.),  
*Measurement of the normalized  $Z/\gamma^* \rightarrow \mu^+\mu^-$  transverse momentum distribution in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys. Lett. B (2010).**

<http://arxiv.org/pdf/1006.0618>

DØ Collaboration (V.M. Abazov et al.),  
*Evidence for an anomalous like-sign dimuon charge asymmetry*

**Phys. Rev. D 82 (2010).**

<http://arxiv.org/pdf/1005.2757>

DØ Collaboration (V.M. Abazov et al.),  
*Search for scalar bottom quarks and third-generation leptoquarks  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys. Lett. B 693 (2010).**

<http://arxiv.org/pdf/1005.2222>

DØ Collaboration (V.M. Abazov et al.),  
*Search for Randall-Sundrum gravitons in the dielectron and diphoton final states with  $5.4 \text{ fb}^{-1}$  of data from  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys. Rev. Lett. 104 (2010).**

<http://arxiv.org/pdf/1004.1826>

DØ Collaboration (V.M. Abazov et al.),  
*Measurement of direct photon pair production cross sections in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys. Lett. B690 (2010).**

<http://arxiv.org/pdf/1002.4917>

DØ Collaboration (V.M. Abazov et al.),  
*Measurement of the dijet invariant mass cross section in proton anti-proton collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys. Lett. B (2010).**

<http://arxiv.org/pdf/1002.4594>

DØ Collaboration (V.M. Abazov et al.),  
*b-Jet Identification in the DØ Experiment*

**Nucl. Instrum. Meth. A620 (2010).**

<http://arxiv.org/pdf/1002.4224>

DØ Collaboration (V.M. Abazov et al.),  
*Search for Higgs boson production in dilepton and missing energy final states with  $5.4 \text{ fb}^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys. Rev. Lett. 104 (2010).**

<http://arxiv.org/pdf/1001.4481>

DØ Collaboration (V.M. Abazov et al.),  
*Combination of Tevatron searches for the standard model Higgs boson in*

*the  $W^+W^-$  decay mode*

**Phys. Rev. Lett.** **104** (2010).

<http://arxiv.org/pdf/1001.4162>

DØ Collaboration (V.M. Abazov et al.),

*Dependence of the  $t\bar{t}$  production cross section on the transverse momentum of the top quark*

**Phys. Lett. B** **693** (2010).

<http://arxiv.org/pdf/1001.1900>

DØ Collaboration (V.M. Abazov et al.),

*Search for the standard model Higgs boson in the  $ZH \rightarrow \nu\bar{\nu}b\bar{b}$  channel in  $5.2\text{ fb}^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96\text{ TeV}$*

**Phys. Rev. Lett.** **104** (2010).

<http://arxiv.org/pdf/0912.5285>

DØ Collaboration (V.M. Abazov et al.),

*Double parton interactions in photon+3 jet events in  $p\bar{p}$  collisions  $\sqrt{s} = 1.96\text{ TeV}$*

**Phys. Rev. D** **81** (2010).

<http://arxiv.org/pdf/0912.5104>

DØ Collaboration (V.M. Abazov et al.),

*Search for single top quarks in the tau+jets channel using  $4.8\text{ fb}^{-1}$  of  $p\bar{p}$  collision data*

**Phys. Lett. B** **690** (2010).

<http://arxiv.org/pdf/0912.1066>

DØ Collaboration (V.M. Abazov et al.),

*Search for the associated production of a  $b$  quark and a neutral supersymmetric Higgs boson which decays to tau pairs*

**Phys. Rev. Lett.** **104** (2010).

<http://arxiv.org/pdf/0912.0968>

DØ Collaboration (V.M. Abazov et al.),

*Search for a resonance decaying into  $WZ$  boson pairs in  $p\bar{p}$  collisions*

**Phys. Rev. Lett.** **104** (2010).

<http://arxiv.org/pdf/0912.0715>

DØ Collaboration (V.M. Abazov et al.),

*Measurement of the  $t\bar{t}$  cross section using high-multiplicity jet events*

**Phys. Rev. D** **82** (2010).

<http://arxiv.org/pdf/0911.4286>

DØ Collaboration (V.M. Abazov et al.),

*Determination of the strong coupling constant from the inclusive jet cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96\text{ TeV}$*

**Phys. Rev. D** **80** (2009).

<http://arxiv.org/pdf/0911.2710>

DØ Collaboration (V.M. Abazov et al.),

*Direct measurement of the  $W$  boson width*

**Phys. Rev. Lett.** **103** (2009).

<http://arxiv.org/pdf/0909.4814>

DØ Collaboration (V.M. Abazov et al.),

*Search for charged Higgs bosons in top quark decays*

**Phys. Lett. B** **682** (2009).

<http://arxiv.org/pdf/0908.1811>

DØ Collaboration (V.M. Abazov et al.),

*Measurement of the  $W$  boson mass*

**Phys. Rev. Lett.** **103** (2009).

<http://arxiv.org/pdf/0908.0766>

DØ Collaboration (V.M. Abazov et al.),

*Measurement of trilinear gauge boson couplings from  $WW + WZ \rightarrow l\nu jj$  events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys. Rev. D** **80** (2009).

<http://arxiv.org/pdf/0907.4398>

DØ Collaboration (V.M. Abazov et al.),

*Measurement of  $Z/\gamma^* + jet + X$  angular distributions in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys. Lett. B** **682** (2009).

<http://arxiv.org/pdf/0907.4286>

DØ Collaboration (V.M. Abazov et al.),

*Measurement of the  $t$ -channel single top quark production cross section*

**Phys. Lett. B** **682** (2009).

<http://arxiv.org/pdf/0907.4259>

DØ Collaboration (V.M. Abazov et al.),

*A Novel method for modeling the recoil in  $W$  boson events at hadron collider*

**Nucl. Instrum. Meth. A** **609** (2009).

<http://arxiv.org/pdf/0907.3713>

DØ Collaboration (V.M. Abazov et al.),

*Search for pair production of first-generation leptoquarks in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys. Lett. B** **681** (2009).

<http://arxiv.org/pdf/0907.1048>

DØ Collaboration (V.M. Abazov et al.),

*Search for charged Higgs bosons in decays of top quarks*

**Phys. Rev. D** **80** (2009).

<http://arxiv.org/pdf/0906.5326>

DØ Collaboration (V.M. Abazov et al.),

*Measurement of dijet angular distributions at  $\sqrt{s} = 1.96$  TeV and searches for quark compositeness and extra spatial dimensions*



**Phys. Rev. Lett.** **103** (2009).

<http://arxiv.org/pdf/0906.4819>

DØ Collaboration (V.M. Abazov et al.),

*Search for Resonant Pair Production of long-lived particles decaying to  $b\bar{b}$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys. Rev. Lett.** **103** (2009).

<http://arxiv.org/pdf/0906.1787>

DØ Collaboration (V.M. Abazov et al.),

*Direct measurement of the mass difference between top and antitop quarks*

**Phys. Rev. Lett.** **103** (2009).

<http://arxiv.org/pdf/0906.1172>

DØ Collaboration (V.M. Abazov et al.),

*Search for squark production in events with jets, hadronically decaying tau leptons and missing transverse energy at  $\sqrt{s} = 1.96$  TeV*

**Phys. Lett. B** **680** (2009).

<http://arxiv.org/pdf/0905.4086>

DØ Collaboration (V.M. Abazov et al.),

*Search for NMSSM Higgs bosons in the  $h \rightarrow aa \rightarrow \mu\mu\mu\mu, \mu\mu\tau\tau$  channels using  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys. Rev. Lett.** **103** (2009).

<http://arxiv.org/pdf/0905.3381>

DØ Collaboration (V.M. Abazov et al.),

*Search for dark photons from supersymmetric hidden valleys*

**Phys. Rev. Lett.** **103** (2009).

<http://arxiv.org/pdf/0905.1478>

DØ Collaboration (V.M. Abazov et al.),

*Search for CP violation in  $B_s^0 \rightarrow \mu^+ D_s^- X$  decays in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys. Rev. D** **82** (2010).

<http://arxiv.org/pdf/0904.3907>

DØ Collaboration (V.M. Abazov et al.),

*Measurement of the top quark mass in final states with two leptons*

**Phys. Rev. D** **80** (2009).

<http://arxiv.org/pdf/0904.3195>

DØ Collaboration (V.M. Abazov et al.),

*Measurement of the WW production cross section with dilepton final states in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV and limits on anomalous trilinear gauge couplings*

**Phys. Rev. Lett.** **103** (2009).

<http://arxiv.org/pdf/0904.0673>

DØ Collaboration (V.M. Abazov et al.),

*Combination of  $t\bar{t}$  cross section measurements and constraints on the mass*



*of the top quark and its decays into charged Higgs bosons*

**Phys. Rev. D** **80** (2009).

<http://arxiv.org/pdf/0903.5525>

DØ Collaboration (V.M. Abazov et al.),

*Search for the standard model Higgs boson in tau final states*

**Phys. Rev. Lett.** **102** (2009).

<http://arxiv.org/pdf/0903.4800>

DØ Collaboration (V.M. Abazov et al.),

*Measurements of differential cross sections of  $Z/\gamma^* + \text{jets} + X$  events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys. Lett. B** **678** (2009).

<http://arxiv.org/pdf/0903.1748>

DØ Collaboration (V.M. Abazov et al.),

*Observation of Single Top Quark Production*

**Phys. Rev. Lett.** **103** (2009).

<http://arxiv.org/pdf/0903.0850>

DØ Collaboration (V.M. Abazov et al.),

*Measurement of the  $Z/\gamma^* \rightarrow \nu\bar{\nu}$  gamma cross section and limits on anomalous  $ZZ\gamma$  and  $Z\gamma\gamma$  couplings in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys. Rev. Lett.** **102** (2009).

<http://arxiv.org/pdf/0902.2157>

DØ Collaboration (V.M. Abazov et al.),

*Measurement of the  $t\bar{t}$  production cross section and top quark mass extraction using dilepton events in  $p\bar{p}$  collisions*

**Phys. Lett. B** **679** (2009).

<http://arxiv.org/pdf/0901.2137>

DØ Collaboration (V.M. Abazov et al.),

*Search for Resonant Diphoton Production with the DØ Detector*

**Phys. Rev. Lett.** **102** (2009).

<http://arxiv.org/pdf/0901.1887>

DØ Collaboration (V.M. Abazov et al.),

*Search for admixture of scalar top quarks in the  $t\bar{t}$  lepton+jets final state at  $\sqrt{s} = 1.96$  TeV*

**Phys. Lett. B** **674** (2009).

<http://arxiv.org/pdf/0901.1063>

DØ Collaboration (V.M. Abazov et al.),

*Measurement of  $\gamma + b + X$  and  $\gamma + c + X$  production cross sections in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys. Rev. Lett.** **102** (2009).

<http://arxiv.org/pdf/0901.0739>

DØ Collaboration (V.M. Abazov et al.),

*Search for associated production of charginos and neutralinos in the trilep-*

*ton final state using  $2.3 \text{ fb}^{-1}$  of data*

**Phys. Lett. B 680 (2009).**

<http://arxiv.org/pdf/0901.0646>

DØ Collaboration (V.M. Abazov et al.),

*Search for anomalous top quark couplings with the DØ detector*

**Phys. Rev. Lett. 102 (2009).**

<http://arxiv.org/pdf/0901.0151>

DØ Collaboration (V.M. Abazov et al.),

*Evidence for decay  $B_s^0 \rightarrow D_s^{(*)} D_s^{(*)}$  and a measurement of  $\Delta\Gamma_s^{CP}/\Gamma_s$*

**Phys. Rev. Lett. 102 (2009).**

<http://arxiv.org/pdf/0811.2173>

DØ Collaboration (V.M. Abazov et al.),

*Search for the lightest scalar top quark in events with two leptons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$*

**Phys. Lett. B 675 (2009).**

<http://arxiv.org/pdf/0811.0459>

DØ Collaboration (V.M. Abazov et al.),

*Search for neutral Higgs bosons at high  $\tan\beta$  in the  $b(h/H/A) \rightarrow b\tau + \tau$  channel*

**Phys. Rev. Lett. 102 (2009).**

<http://arxiv.org/pdf/0811.0024>

DØ Collaboration (V.M. Abazov et al.),

*Evidence of  $WW+WZ$  production with lepton + jets final states in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$*

**Phys. Rev. Lett. 102 (2009).**

<http://arxiv.org/pdf/0810.3873>

DØ Collaboration (V.M. Abazov et al.),

*Measurement of the angular and lifetime parameters of the decays  $B_d^0 \rightarrow J/\psi K^{*0}$  and  $B_s^0 \rightarrow J/\psi \phi$*

**Phys. Rev. Lett. 102 (2009).**

<http://arxiv.org/pdf/0810.0037>

DØ Collaboration (V.M. Abazov et al.),

*Search for Long-Lived Charged Massive Particles with the DØ Detector*

**Phys. Rev. Lett. 102 (2009).**

<http://arxiv.org/pdf/0809.4472>

DØ Collaboration (V.M. Abazov et al.),

*Search for Large extra spatial dimensions in the dielectron and diphoton channels in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$*

**Phys. Rev. Lett. 102 (2009).**

<http://arxiv.org/pdf/0809.2813>

DØ Collaboration (V.M. Abazov et al.),

*Observation of the doubly strange  $b$  baryon  $\Omega_b$*

**Phys. Rev. Lett.** **101** (2009).

<http://arxiv.org/pdf/0808.4142>

DØ Collaboration (V.M. Abazov et al.),

*Search for pair production of second generation scalar leptoquarks*

**Phys. Lett. B** **671** (2008).

<http://arxiv.org/pdf/>

DØ Collaboration (V.M. Abazov et al.),

*A Search for associated W and Higgs Boson production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys. Rev. Lett.** **102** (2009).

<http://arxiv.org/pdf/0808.1970>

DØ Collaboration (V.M. Abazov et al.),

*Measurement of  $\sigma(p\bar{p} \rightarrow Z + X)Br(Z \rightarrow \tau\tau)$  at  $\sqrt{s} = 1.96$  TeV*

**Phys. Lett. B** **670** (2009).

<http://arxiv.org/pdf/0808.1306>

DØ Collaboration (V.M. Abazov et al.),

*Measurement of differential  $Z/\gamma^* + jet + X$  cross sections in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys. Lett. B** **669** (2008).

<http://arxiv.org/pdf/0808.1296>

DØ Collaboration (V.M. Abazov et al.),

*A Search for the standard model Higgs boson in the missing energy and acoplanar b-jet topology at  $\sqrt{s} = 1.96$  TeV*

**Phys. Rev. Lett.** **101** (2008).

<http://arxiv.org/pdf/0808.1266>

DØ Collaboration (V.M. Abazov et al.),

*Observation of ZZ production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys. Rev. Lett.** **101** (2008).

<http://arxiv.org/pdf/0808.0703>

DØ Collaboration (V.M. Abazov et al.),

*Search for scalar leptoquarks and T-odd quarks in the acoplanar jet topology using  $2.5\text{ fb}^{-1}$  of  $p\bar{p}$  collision data at  $\sqrt{s} = 1.96$  TeV*

**Phys. Lett. B** **668** (2008).

<http://arxiv.org/pdf/0808.0446>

DØ Collaboration (V.M. Abazov et al.),

*$ZZ \rightarrow l^+l^-\nu\bar{\nu}$  production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*

**Phys. Rev.D** **78** (2008).

<http://arxiv.org/pdf/>

DØ Collaboration (V.M. Abazov et al.),

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