

# Robert Craig Group

## PUBLICATION LIST

### Publications in Refereed Journals

- [1] “*Evidence for a particle produced in association with weak bosons and decaying to a bottom-antibottom quark pair in Higgs boson searches at the Tevatron*”, Phys. Rev. Lett. 109, 071804 (2012)
- [2] “*Search for a Higgs boson in the diphoton final state using the full CDF data set*”, Submitted to PLB, arXiv:1207.6386
- [3] “*Combined search for the standard model Higgs boson decaying to a  $bb$  pair using the full CDF data set.*”, To be published in PRL, arXiv:1207.1707
- [4] “*Search for the standard model Higgs boson decaying to a  $bb$  pair in events with one charged lepton and large missing transverse energy using the full CDF data set*”, To be publishes in PRL, arXiv:1207.1703
- [5] “*Search for the standard model Higgs boson produced in association with a  $W^\pm$  boson with  $7.5 \text{ fb}^{-1}$* ”, To be published in PRD, arXiv:1206.5063
- [6] “*Search for a Higgs Boson in the Diphoton Final State in  $p\bar{p}$  at  $\sqrt{s} = 1.96 \text{ TeV}$* ”, Phys. Rev. Lett. 108, 011801 (2012)
- [7] “*Search for a Higgs Boson produced in Association with a  $W$  Boson Using a Method Based on Matrix Element Techniques*”, Phys. Rev. D. 85, 072001 (2012)
- [8] “*Observation of Single Top Quark Production and Measurement of  $V_{tb}$  with CDF*”, Phys. Rev. D. 82, 112005 (2010)
- [9] “*Measurement of the  $WW+WZ$  Production Cross Section Using a Matrix Element Technique in Lepton + Jets Events*”, Phys. Rev. D. 82, 112001 (2010)
- [10] “*Studying the Underlying Event in Drell-Yan and High Transverse Momentum Jet Production at the Tevatron*”, Phys. Rev. D. 82, 034001 (2010)
- [11] “*Measurement of the  $WW$  and  $WZ$  production cross section in  $\ell\nu jj$* ”, Phys. Rev. Lett. 104, 101801 (2010)
- [12] “*Search for Standard Model Higgs Bosons in  $WH \rightarrow \ell\nu b\bar{b}$* ”, Phys. Rev. Lett. 103, 101802 (2009)
- [13] “*Observation of Single Top Quark Production*”, Phys. Rev. Lett. 103, 092002 (2009)
- [14] “*Search for a Fermiophobic Higgs Boson Decaying into Diphotons at CDF*”, Phys. Rev. Lett. 103, 061803 (2009)
- [15] “*Measurement of Single Top Quark Production at CDF*”, Phys. Rev. Lett. 101, 250601 (2008)
- [16] “*The Inclusive Jet Cross Section Using the Midpoint Algorithm in RunII at CDF*”, Phys. Rev. D78, 052006 (2008)

In addition to the publications listed above, I have been a member of the CDF author list since January 2006 with over 250 publications and more than 9000 citations (based on the SPIRES - High-Energy Physics Literature Database). I have also made major contributions to almost 100 unpublished notes documenting my work for the CDF, Mu2e, and NOvA collaborations.

## Conference Proceedings and Non-refereed Publications

- [1] “*Updated Combination CDF and D0 Searches for Standard Model Higgs Boson Production with up to 10.0 fb<sup>-1</sup> of Data*”, Tevatron New Phenomena and Higgs Working Group, arXiv:1207.0449 (2012)
- [2] “*Fundamental Physics at the Intensity Frontier*”, Intensity Frontier Workshop, arXiv:1205.2671 (2012)
- [3] “*Combined CDF and D0 Search for Standard Model Higgs Boson Production with up to 10.0 fb<sup>-1</sup> of Data*”, Tevatron New Phenomena and Higgs Working Group, arXiv:1203.3774 (2012)
- [4] “*Combined CDF and D0 measurement of WZ and ZZ production with b-tagged jets*”, Tevatron New Phenomena and Higgs Working Group, arXiv:1203.3782 (2012)
- [5] “*Status of Higgs Boson and Other New Physics Searches at the Tevatron*”, Contributed to the proceedings of XIX International Workshop on Deep-Inelastic Scattering and Related Subjects, Newport News, VA, 2011
- [6] “*Combined CDF and D0 Upper Limits on Standard Model Higgs Boson Production with up to 8.6 fb<sup>-1</sup> of Data*”, Tevatron New Phenomena and Higgs Working Group, arXiv:1107.5518 (2011)
- [7] “*Combined CDF and D0 upper limits on Fermiophobic Higgs Boson Production with up to 8.2 fb<sup>-1</sup> of Data*”, Tevatron New Phenomena and Higgs Working Group, arXiv:1109.0576 (2011)
- [8] “*Combined CDF and D0 Searches for the Standard Model Higgs Boson Decaying to Two Photons with up to 8.2 fb<sup>-1</sup> of Data*”, Tevatron New Phenomena and Higgs Working Group, arXiv:1107.4960 (2011)
- [9] “*Higgs Boson Searches at CDF*”, Contributed to Lake Louise Winter Institute, arXiv:0905.4267 (2009)
- [10] “*Combination of CDF and DØ Single Top Quark Cross Sections Measurements*”, Tevatron New Phenomena and Higgs Working Group, arXiv:0908.2171 (2009)
- [11] “*Combination of Single Top Quark Production Results from CDF*”, Contributed to ICHEP 2008, arXiv:0809.4670 (2008)
- [12] “*Recent QCD Studies at the Tevatron*”, Contributed to XXII Rencontres de Physique de la Vallée d’Aoste, arXiv:0804.4494 (2008)
- [13] “*PDF use from the Tevatron to the LHC*”, Contributed to TeV4LHC workshop, QCD Group Report, hep-ph/0605240 (2005)
- [14] “*Slepton Mass Measurements at the LHC II*”, Contributed to TeV4LHC workshop, Exotics Group Report, hep-ph/0608322 (2005)
- [15] “*Slepton Mass Measurements at the LHC*”, Contributed to Linear Collider Workshop, hep-ph/0507002 (2005)
- [16] “*PYTHIA Tune A, HERWIG, and JIMMY in Run 2 at CDF*”, Contributed to Hera and the LHC workshop, hep-ph/0510198 (2005)
- [17] “*The Les Houches Accord PDFs (LHAPDF) and LHAGLUE*”, Contributed to Hera and the LHC workshop, hep-ph/0508110 (2005)