

Papers by Małgorzata Worek

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1. **“On the next-to-leading order QCD K-factor for top anti-top bottom anti-bottom production at the TeVatron”**
M. Worek.
arXiv:1112.4325 [hep-ph]
JHEP **1202**, 043 (2012)
2. **“Phenomenological studies of top-pair production at Next-to-Leading order”**
M. Worek.
arXiv:1110.5182 [hep-ph]
Acta Phys. Polon. B **42**, 2415 (2011)
3. **“Helac-NLO”**
G. Bevilacqua, M. Czakon, M. V. Garzelli, A. van Hameren, A. Kardos, C. G. Papadopoulos, R. Pittau and M. Worek.
arXiv:1110.1499 [hep-ph]
4. **“Hadronic top-quark pair production in association with two jets at Next-to-Leading Order QCD”**
G. Bevilacqua, M. Czakon, C. G. Papadopoulos and M. Worek.
arXiv:1108.2851 [hep-ph]
Phys. Rev. D **84**, 114017 (2011)
5. **“VBFNLO: A parton level Monte Carlo for processes with electroweak bosons – Manual for Version 2.5.0”**
K. Arnold, *et al.*
arXiv:1107.4038 [hep-ph]
6. **“NNLO leptonic and hadronic corrections to Bhabha scattering and luminosity monitoring at meson factories”**
C. Carloni Calame, *et al.*
arXiv:1106.3178 [hep-ph]
JHEP **1107**, 126 (2011)
7. **“Complete off-shell effects in top quark pair hadroproduction with leptonic decay at next-to-leading order”**
G. Bevilacqua, M. Czakon, A. van Hameren, C. G. Papadopoulos and M. Worek.
arXiv:1012.4230 [hep-ph]
JHEP **1102**, 083 (2011)
8. **“NLO QCD calculations with HELAC-NLO”**
G. Bevilacqua, M. Czakon, M. V. Garzelli, A. van Hameren, Y. Malamos, C. G. Papadopoulos, R. Pittau and M. Worek.

arXiv:1007.4918 [hep-ph]
Nucl. Phys. Proc. Suppl. **205-206**, 211 (2010)

9. **“Top quark pair production with two jets at next-to-leading order”**
M. Worek.
arXiv:1007.3083 [hep-ph]
Nuovo Cim. C **33**, 57 (2010)
10. **“Dominant QCD Backgrounds in Higgs Boson Analyses at the LHC: A Study of $pp \rightarrow t \text{ anti-}t + 2 \text{ jets}$ at Next-To-Leading Order”**
G. Bevilacqua, M. Czakon, C. G. Papadopoulos and M. Worek.
arXiv:1002.4009 [hep-ph]
Phys. Rev. Lett. **104**, 162002 (2010)
11. **“Quest for precision in hadronic cross sections at low energy: Monte Carlo tools vs. experimental data”**
S. Actis *et al.* [Working Group on Radiative Corrections and Monte Carlo Generators for Low Energies Collaboration].
arXiv:0912.0749 [hep-ph]
Eur. Phys. J. C **66**, 585 (2010)
12. **“Next-to-leading order QCD corrections to $t \text{ anti-}t b \text{ anti-}b$ production at the LHC”**
M. Worek.
arXiv:0910.4080 [hep-ph]
Acta Phys. Polon. B **40**, 2937 (2009)
13. **“Assault on the NLO Wishlist: $pp \rightarrow t \text{ anti-}t b \text{ anti-}b$ ”**
G. Bevilacqua, M. Czakon, C. G. Papadopoulos, R. Pittau and M. Worek.
arXiv:0907.4723 [hep-ph]
JHEP **0909**, 109 (2009)
14. **“Polarizing the Dipoles”**
M. Czakon, C. G. Papadopoulos and M. Worek.
arXiv:0905.0883 [hep-ph]
JHEP **0908**, 085 (2009)
15. **“VBFNLO: A Parton level Monte Carlo for processes with electroweak bosons”**
K. Arnold, *et al.*
arXiv:0811.4559 [hep-ph]
Comput. Phys. Commun. **180**, 1661 (2009)
16. **“Observing Strongly Interacting Vector Boson Systems at the CERN Large Hadron Collider”**
C. Englert, B. Jager, M. Worek and D. Zeppenfeld.
arXiv:0810.4861 [hep-ph]
Phys. Rev. D **80**, 035027 (2009)
17. **“Monte Carlo generators for the LHC”**
M. Worek.
arXiv:0710.2785 [hep-ph]
Acta Phys. Polon. B **38**, 3399 (2007)
18. **“Helac-Phegas: A Generator for all parton level processes”**
A. Cafarella, C. G. Papadopoulos and M. Worek.

- arXiv:0710.2427 [hep-ph]
Comput. Phys. Commun. **180**, 1941 (2009)
19. **“Comparative study of various algorithms for the merging of parton showers and matrix elements in hadronic collisions”**
J. Alwall, *et al.*
arXiv:0706.2569 [hep-ph]
Eur. Phys. J. C **53**, 473 (2008)
 20. **“A Standard format for Les Houches event files”**
J. Alwall, *et al.*
hep-ph/0609017
Comput. Phys. Commun. **176**, 300 (2007)
 21. **“Recursive equations for arbitrary scattering processes”**
P. Draggiotis, A. van Hameren, R. Kleiss, A. Lazopoulos, C. G. Papadopoulos and M. Worek.
hep-ph/0607034
Nucl. Phys. Proc. Suppl. **160**, 255 (2006)
 22. **“Multi-parton cross sections at hadron colliders”**
C. G. Papadopoulos and M. Worek.
hep-ph/0512150
Eur. Phys. J. C **50**, 843 (2007)
 23. **“Looking for CP violation in $B \rightarrow \tau^+ \tau^-$ decays”**
J. Kalinowski, P. H. Chankowski, Z. Was and M. Worek.
hep-ph/0511079
Acta Phys. Polon. B **36**, 3463 (2005)
 24. **“Multi-particle processes in the standard model without Feynman diagrams”**
C. G. Papadopoulos and M. Worek.
hep-ph/0510416
Acta Phys. Polon. B **36**, 3355 (2005)
 25. **“Multi-particle processes in QCD without Feynman diagrams”**
C. G. Papadopoulos and M. Worek.
hep-ph/0508291
Nucl. Instrum. Meth. A **559**, 278 (2006)
 26. **“CP violation in $B_d^0 \rightarrow \tau^+ \tau^-$ decays”**
P. H. Chankowski, J. Kalinowski, Z. Was and M. Worek.
hep-ph/0412253
Nucl. Phys. B **713**, 555 (2005)
 27. **“The Tauola-photos-F environment for the TAUOLA and PHOTOS packages: Release II.”**
P. Golonka, B. Kersevan, T. Pierzchala, E. Richter-Was, Z. Was and M. Worek.
hep-ph/0312240
Comput. Phys. Commun. **174**, 818 (2006)
 28. **“The Method to determine the CP nature of Higgs bosons from decays to tau leptons at LC”**
M. Worek.
hep-ph/0310205
Acta Phys. Polon. B **34**, 5531 (2003)

29. **“Probing the CP nature of the Higgs boson at linear colliders with tau spin correlations: The Case of mixed scalar - pseudoscalar couplings”**
K. Desch, A. Imhof, Z. Was and M. Worek.
hep-ph/0307331
Phys. Lett. B **579**, 157 (2004)
30. **“Higgs CP from $H/A^0 \rightarrow \tau\tau$ decay”**
M. Worek.
hep-ph/0305082
Acta Phys. Polon. B **34**, 4549 (2003)
31. **“Measuring the Higgs boson parity at a linear collider using the tau impact parameter and $\tau \rightarrow \rho\nu$ decay”**
K. Desch, Z. Was and M. Worek.
hep-ph/0302046
Eur. Phys. J. C **29**, 491 (2003)
32. **“Measuring the Higgs boson’s parity using $\tau \rightarrow \rho\nu$ ”**
G. R. Bower, T. Pierzchala, Z. Was and M. Worek.
hep-ph/0204292
Phys. Lett. B **543**, 227 (2002)
33. **“Transverse spin effects in $H/A \rightarrow \tau^+\tau^-; \tau^\pm \rightarrow \nu X^\pm$, Monte Carlo approach”**
Z. Was and M. Worek.
hep-ph/0202007
Acta Phys. Polon. B **33**, 1875 (2002)
34. **“Novosibirsk hadronic currents for $\tau \rightarrow 4\pi$ channels of tau decay library TAUOLA”**
A. E. Bondar, S. I. Eidelman, A. I. Milstein, T. Pierzchala, N. I. Root, Z. Was and M. Worek.
hep-ph/0201149
Comput. Phys. Commun. **146**, 139 (2002)
35. **“Tau polarization and its correlations as a signal for Higgs bosons. Universal spin interface for TAUOLA package”**
M. Worek.
hep-ph/0110228
Acta Phys. Polon. B **32**, 3803 (2001)
36. **“Spin effects in tau lepton pair production at LHC”**
T. Pierzchala, E. Richter-Was, Z. Was and M. Worek.
hep-ph/0101311
Acta Phys. Polon. B **32**, 1277 (2001)