

Personal List of Publications for Graham W. WILSON

Available in electronic form with links at

<http://people.ku.edu/~gwwilson/pubs.html>

Only the 110 publications where I have substantial contributions are listed here.

Full publication list (778 publications) also available at above link.

- [1] **“Search for anomalous quartic $WW\gamma\gamma$ couplings in dielectron and missing energy final states in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:1305.1258 [hep-ex]
Submitted to Phys. Rev. D. [HEP entry](#)
- [2] **“Measurement of the ZZ production cross section and search for the standard model Higgs boson in the four lepton final state in $p\bar{p}$ collisions”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:1304.5422 [hep-ex]
Submitted to Phys. Rev. D. [HEP entry](#)
- [3] **“D0 Results and Combined Tevatron Results on Standard Model Higgs”**
G. W. Wilson [D0 Collaboration].
10.1016/j.nuclphysbps.2012.12.053
Proceedings of the 10th International Conference on Hyperons, Charm and Beauty Hadrons (BEACH 2012), July 2012, Wichita, KS.
Nucl. Phys. Proc. Suppl. **233**, 46 (2012). [HEP entry](#)
- [4] **“Combined search for the Higgs boson with the D0 experiment”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:1303.0823 [hep-ex]
Accepted by Phys. Rev. D. [HEP entry](#)
- [5] **“Search for Higgs boson production in trilepton and like-charge electron-muon final states with the D0 detector”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:1302.5723 [hep-ex]
Accepted by Phys. Rev. D. [HEP entry](#)
- [6] **“Search for a Higgs boson in diphoton final states with the D0 detector in 9.6 fb^{-1} of $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:1301.5358 [hep-ex]
Accepted by Phys. Rev. D. [HEP entry](#)
- [7] **“Limits on anomalous trilinear gauge boson couplings from WW , WZ and $W\gamma$ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:1208.5458 [hep-ex]
10.1016/j.physletb.2012.10.062
Phys. Lett. B **718**, 451 (2012) [HEP entry](#)
- [8] **“Improving the Prompt Electromagnetic Energy Component of Jet Energy Resolution with π^0 Fitting in High Granularity Electromagnetic Calorimeters”**
B. van Doren and G. W. Wilson,
Proceedings of the International Workshop on Future Linear Colliders (LCWS11), Granada, Spain.
arXiv:1203.2577 [physics.ins-det] [HEP entry](#)

- [9] **“A measurement of the WZ and ZZ production cross sections using leptonic final states in 8.6 fb^{-1} of $p\bar{p}$ collisions”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:1201.5652 [hep-ex]
10.1103/PhysRevD.85.112005
Phys. Rev. D **85**, 112005 (2012) [HEP entry](#)
- [10] **“Multi-lepton signals from the top-prime quark at the LHC”**
K. Kong, M. McCaskey and G. W. Wilson.
arXiv:1112.3041 [hep-ph]
10.1007/JHEP04(2012)079
JHEP **1204**, 079 (2012) [HEP entry](#)
- [11] **“Measurements of WW and WZ production in $W + \text{jets}$ final states in $p\bar{p}$ collisions”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:1112.0536 [hep-ex]
10.1103/PhysRevLett.108.181803
Phys. Rev. Lett. **108**, 181803 (2012) [HEP entry](#)
- [12] **“Search for the standard model and a fermiophobic Higgs boson in diphoton final states”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:1107.4587 [hep-ex]
10.1103/PhysRevLett.107.151801
Phys. Rev. Lett. **107**, 151801 (2011) [HEP entry](#)
- [13] **“Bounds on an anomalous dijet resonance in $W + \text{jets}$ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96 \text{ TeV}$ ”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:1106.1921 [hep-ex]
10.1103/PhysRevLett.107.011804
Phys. Rev. Lett. **107**, 011804 (2011) [HEP entry](#)
- [14] **“Tests of a particle flow algorithm with CALICE test beam data”**
C. Adloff *et al.* [CALICE Collaboration].
arXiv:1105.3417 [physics.ins-det]
10.1088/1748-0221/6/07/P07005
JINST **6**, P07005 (2011) [HEP entry](#)
- [15] **“Measurement of the ZZ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96 \text{ TeV}$ ”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:1104.3078 [hep-ex]
10.1103/PhysRevD.84.011103
Phys. Rev. D **84**, 011103 (2011) [HEP entry](#)
- [16] **“Search for flavor changing neutral currents in decays of top quarks”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:1103.4574 [hep-ex]
10.1016/j.physletb.2011.06.014
Phys. Lett. B **701**, 313 (2011) [HEP entry](#)
- [17] **“Measurement of the $WZ \rightarrow l\nu ll$ cross section and limits on anomalous triple gauge couplings in $p\bar{p}$ collisions at $\sqrt{s} = 1.96 \text{ TeV}$ ”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:1006.0761 [hep-ex]
10.1016/j.physletb.2010.10.047
Phys. Lett. B **695**, 67 (2011) [HEP entry](#)
- [18] **“The International Large Detector: Letter of Intent”**
T. Abe *et al.* [ILD Concept Group - Linear Collider Collaboration].
arXiv:1006.3396 [hep-ex]
DESY 2009-87, FERMILAB-PUB-09-682-E, KEK Report 2009-6, February 2010. [HEP entry](#)

- [19] **“Combined measurements of anomalous charged trilinear gauge-boson couplings from diboson production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0907.4952 [hep-ex] [HEP entry](#)
- [20] **“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”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0904.0673 [hep-ex]
10.1103/PhysRevLett.103.191801
Phys. Rev. Lett. **103**, 191801 (2009) [HEP entry](#)
- [21] **“Search for Charged Higgs Bosons in e^+e^- Collisions at $\sqrt{s} = 189 - 209$ GeV”**
G. Abbiendi *et al.* [OPAL Collaboration].
arXiv:0812.0267 [hep-ex]
10.1140/epjc/s10052-012-2076-0
Eur. Phys. J. C **72**, 2076 (2012) [HEP entry](#)
- [22] **“Atmospheric Consequences of Cosmic Ray Variability in the Extragalactic Shock Model II: Revised ionization levels and their consequences”**
A. L. Melott, A. J. Krejci, B. C. Thomas, M. V. Medvedev, G. W. Wilson and M. J. Murray.
arXiv:0808.0915 [astro-ph]
J. Geophys. Res. Planets **115**, E08002 (2010) [HEP entry](#)
- [23] **“Observation of ZZ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0808.0703 [hep-ex]
10.1103/PhysRevLett.101.171803
Phys. Rev. Lett. **101**, 171803 (2008) [HEP entry](#)
- [24] **“ $ZZ \rightarrow \ell^+\ell^-\nu\bar{\nu}$ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0808.0269 [hep-ex]
10.1103/PhysRevD.78.072002
Phys. Rev. D **78**, 072002 (2008) [HEP entry](#)
- [25] **“ILC Reference Design Report Volume 4 - Detectors”**
T. Behnke *et al.* [ILC Collaboration].
arXiv:0712.2356 [physics.ins-det]
[HEP entry](#)
- [26] **“ILC Reference Design Report: ILC Global Design Effort and World Wide Study”**
J. Brau *et al.* [ILC Collaboration].
arXiv:0712.1950 [physics.acc-ph]
[HEP entry](#)
- [27] **“Measurement of the $p\bar{p} \rightarrow WZ + X$ cross-section at $\sqrt{s} = 1.96$ TeV and limits on WWZ trilinear gauge couplings”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0709.2917 [hep-ex]
10.1103/PhysRevD.76.111104
Phys. Rev. D **76**, 111104 (2007) [HEP entry](#)
- [28] **“International Linear Collider Reference Design Report Volume 2: Physics at the ILC”**
G. Aarons *et al.* [ILC Collaboration].
arXiv:0709.1893 [hep-ph]
[HEP entry](#)

- [29] **“Measurement of the $e^+e^- \rightarrow W^+W^-$ cross section and W decay branching fractions at LEP”**
 G. Abbiendi *et al.* [OPAL Collaboration].
 arXiv:0708.1311 [hep-ex]
 10.1140/epjc/s10052-007-0442-0
 Eur. Phys. J. C **52**, 767 (2007) [HEP entry](#)
- [30] **“GLD Detector Outline Document”**
 K. Abe *et al.* [GLD Concept Study Group Collaboration].
 physics/0607154
[HEP entry](#)
- [31] **“Supersymmetry searches at the Tevatron”**
 G. W. Wilson.
 10.1063/1.2149686
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- [32] **“On Evaluating the Calorimetry Performance of Detector Design Concepts”**
 G. W. Wilson,
 Proceedings of the International Workshop on Future Linear Colliders (LCWS 2005), Stanford, CA.
 eConf C **050318**, 1605 (2005). [HEP entry](#)
- [33] **“The Upgraded D0 detector”**
 V. M. Abazov *et al.* [D0 Collaboration].
 physics/0507191 [physics.ins-det]
 10.1016/j.nima.2006.05.248
 Nucl. Instrum. Meth. A **565**, 463 (2006) [HEP entry](#)
- [34] **“Searches for gauge-mediated supersymmetry breaking topologies in e^+e^- collisions at LEP2”**
 G. Abbiendi *et al.* [OPAL Collaboration].
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 Eur. Phys. J. C **46**, 307 (2006) [HEP entry](#)
- [35] **“The role of polarized positrons and electrons in revealing fundamental interactions at the linear collider”**
 G. Moortgat-Pick, T. Abe, G. Alexander, B. Ananthanarayan, A. A. Babich, V. Bharadwaj, D. Barber and A. Bartl *et al.*.
 hep-ph/0507011
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- [36] **“The central track trigger of the D0 experiment”**
 Y. Hu, L. Babukhadia, M. Bhattacharjee, S. Desai, P. Grannis, Y. D. Mutaf, J. Anderson and R. D. Angstadt *et al.*.
 10.1109/TNS.2004.836090
 IEEE Trans. Nucl. Sci. **51**, 2368 (2004). [HEP entry](#)
- [37] **“First results from the central tracking trigger of the D0 experiment”**
 Y. Maravin, J. Anderson, R. D. Angstadt, F. Borchering, S. Gruenendahl, M. Johnson, J. Olsen and S. Rapisarda *et al.*.
 10.1109/TNS.2004.832623
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- [38] **“Determination of the LEP beam energy using radiative fermion-pair events”**
 G. Abbiendi *et al.* [OPAL Collaboration].
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 10.1016/j.physletb.2004.10.046
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- [39] **“Multi-photon events with large missing energy in e^+e^- collisions at $\sqrt{s} = 192 - 209$ GeV”**
 G. Abbiendi *et al.* [OPAL Collaboration].
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 Phys. Lett. B **602**, 167 (2004) [HEP entry](#)
- [40] **“Constraints on anomalous quartic gauge boson couplings from $\nu\bar{\nu}\gamma\gamma$ and $q\bar{q}\gamma\gamma$ events at LEP2”**
 G. Abbiendi *et al.* [OPAL Collaboration].
 hep-ex/0402021
 10.1103/PhysRevD.70.032005
 Phys. Rev. D **70**, 032005 (2004) [HEP entry](#)
- [41] **“Search for chargino and neutralino production at $\sqrt{s} = 192 - 209$ GeV at LEP”**
 G. Abbiendi *et al.* [OPAL Collaboration].
 hep-ex/0401026
 10.1140/epjc/s2004-01758-8
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- [42] **“Search for anomalous production of dilepton events with missing transverse momentum in e^+e^- collisions at $\sqrt{s} = 183 - 209$ GeV”**
 G. Abbiendi *et al.* [OPAL Collaboration].
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- [43] **“The run IIb trigger upgrade for the D0 experiment”**
 M. Abolins, J. Ban, J. Bystricky, D. Calvet, D. Chapin, D. Edmunds, H. Evans and L. Han *et al.*.
 10.1109/TNS.2004.828811
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- [44] **“Test of non-commutative QED in the process $e^+e^- \rightarrow \gamma\gamma$ at LEP”**
 G. Abbiendi *et al.* [OPAL Collaboration].
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 10.1016/j.physletb.2003.05.008
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- [45] **“Multiphoton production in e^+e^- collisions at $\sqrt{s} = 181 - 209$ GeV”**
 G. Abbiendi *et al.* [OPAL Collaboration].
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- [46] **“Direct investigations of supersymmetry: Subgroup summary report”**
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- [47] **“Single electron signal from anomaly mediated supersymmetry breaking at a future linear collider”**
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- [48] **“Measurement of the mass of the W boson in e^+e^- collisions using the fully leptonic channel”**
 G. Abbiendi *et al.* [OPAL Collaboration].
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- [49] **“The Snowmass points and slopes: Benchmarks for SUSY searches”**
 B. C. Allanach, M. Battaglia, G. A. Blair, M. S. Carena, A. De Roeck, A. Dedes, A. Djouadi and D. Gerdes *et al.*
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- [50] **“Run scenarios for the linear collider”**
 M. Battaglia, J. Barron, M. Dima, L. Hamilton, A. Johnson, U. Nauenberg, M. Route and D. Staszak *et al.*
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- [51] **“Positron polarization and low-energy running at a linear collider”**
 J. Erler, K. Flottmann, S. Heinemeyer, K. Monig, G. A. Moortgat-Pick, P. C. Rowson, E. Torrence and G. Weiglein *et al.*
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- [52] **“Post-LEP CMSSM benchmarks for supersymmetry”**
 M. Battaglia, A. De Roeck, J. R. Ellis, F. Gianotti, K. T. Matchev, K. A. Olive, L. Pape and G. W. Wilson.
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- [53] **“Study of the sensitivity to extra-dimensions in the photon graviton channel with polarized beams”**
 G. W. Wilson.
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- [54] **“Precision measurement of the W mass with a polarized threshold scan at a linear collider.”**
 G. W. Wilson.
 In *2nd ECFA/DESY Study 1998-2001* 1498-1505
 LC-PHSM-2001-09 and in Proceedings of the International Workshop on Future Linear Colliders (LCWS 1999), Sitges, Spain. [HEP entry](#)
- [55] **“TESLA: The Superconducting electron positron linear collider with an integrated X-ray laser laboratory. Technical design report. Part 3. Physics at an e^+e^- linear collider”**
 J. A. Aguilar-Saavedra *et al.* [ECFA/DESY LC Physics Working Group Collaboration].
 hep-ph/0106315 [HEP entry](#)
- [56] **“Linear Collider Physics Resource Book for Snowmass 2001 - Part 2: Higgs and Supersymmetry Studies”**
 T. Abe *et al.* [American Linear Collider Working Group Collaboration].
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- [57] **“Proposed post-LEP benchmarks for supersymmetry”**
 M. Battaglia, A. De Roeck, J. R. Ellis, F. Gianotti, K. T. Matchev, K. A. Olive, L. Pape and G. W. Wilson.
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- [58] **“TESLA: The superconducting electron positron linear collider with an integrated X-ray laser laboratory. Technical design report. Part 4: A detector for TESLA”**
 G. Alexander, F. Badaud, M. Battaglia, T. Behnke, M. Berggren, S. Bertolucci, F. Bieser and G. A. Blair *et al.* [HEP entry](#)

- [59] **“Completing the sparticle spectrum at a multi-TeV linear collider?”**
G. W. Wilson. (Oct 2000) [HEP entry](#)
- [60] **“ W^+W^- production cross-section and W branching fractions in e^+e^- collisions at 189 GeV”**
G. Abbiendi *et al.* [OPAL Collaboration].
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- [61] **“Searches for prompt light gravitino signatures in e^+e^- collisions at $\sqrt{s} = 189$ GeV”**
G. Abbiendi *et al.* [OPAL Collaboration].
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10.1016/S0370-2693(01)00101-0
Phys. Lett. B **501**, 12 (2001) [HEP entry](#)
- [62] **“Photonic events with missing energy in e^+e^- collisions at $\sqrt{s} = 189$ GeV”**
G. Abbiendi *et al.* [OPAL Collaboration].
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- [63] **“Precision measurement of the W mass with a polarised threshold scan at a linear collider”**
G. W. Wilson. (Apr 1999) [HEP entry](#)
- [64] **“Report of the beyond the standard model working group of the 1999 UK phenomenology workshop on collider physics (Durham)”**
B. C. Allanach, J. van der Bij, A. Dedes, A. Djouadi, J. Grosse-Knetter, J. Hetherington, S. Heinemeyer and J. Holt *et al.*.
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- [65] **“Search for anomalous production of acoplanar di-lepton events in e^+e^- collisions at $\sqrt{s} = 183 - 189$ GeV”**
G. Abbiendi *et al.* [OPAL Collaboration].
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- [66] **“Search for chargino and neutralino production at $\sqrt{s} = 189$ GeV at LEP”**
G. Abbiendi *et al.* [OPAL Collaboration].
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- [67] **“Multiphoton production in e^+e^- collisions at $\sqrt{s} = 189$ GeV”**
G. Abbiendi *et al.* [OPAL Collaboration].
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- [68] **“Search for Higgs bosons in e^+e^- collisions at 183 GeV”**
G. Abbiendi *et al.* [OPAL Collaboration].
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- [69] **“ W^+W^- production and triple gauge boson couplings at LEP energies up to 183 GeV”**
G. Abbiendi *et al.* [OPAL Collaboration].
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- [70] **“Search for anomalous photonic events with missing energy in e^+e^- collisions at $\sqrt{s} = 130, 136, 183$ GeV”**
 G. Abbiendi *et al.* [OPAL Collaboration].
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- [71] **“Search for chargino and neutralino production at $\sqrt{s} = 181 - 184$ GeV at LEP”**
 G. Abbiendi *et al.* [OPAL Collaboration].
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- [72] **“Search for acoplanar lepton pair events in e^+e^- collisions at $\sqrt{s} = 161, 172, 183$ GeV”**
 G. Abbiendi *et al.* [OPAL Collaboration].
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- [73] **“Multiphoton production in e^+e^- collisions at $\sqrt{s} = 183$ GeV”**
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- [74] **“Searches for new particles at LEP2 and 4-jet status”**
 G. W. Wilson. (Mar 1997) [HEP entry](#)
- [75] **“Search for charged Higgs bosons in e^+e^- collisions at $\sqrt{s} = 130 - 172$ GeV”**
 K. Ackerstaff *et al.* [OPAL Collaboration].
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- [76] **“Search for anomalous production of photonic events with missing energy in e^+e^- collisions at $\sqrt{s} = 130 - 172$ GeV”**
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- [77] **“Search for anomalous production of dilepton events with missing transverse momentum in e^+e^- collisions at $\sqrt{s} = 161, 172$ GeV”**
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- [78] **“Search for unstable heavy and excited leptons in e^+e^- collisions at $\sqrt{s} = 170 - 172$ GeV”**
 K. Ackerstaff *et al.* [OPAL Collaboration].
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- [79] **“Measurement of triple gauge boson couplings from W^+W^- production at $\sqrt{s} = 172$ GeV”**
 K. Ackerstaff *et al.* [OPAL Collaboration].
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- [80] **“Measurement of the W boson mass and W^+W^- production and decay properties in e^+e^- collisions at $\sqrt{s} = 172$ GeV”**
 K. Ackerstaff *et al.* [OPAL Collaboration].
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- [81] **“Multiphoton final states in e^+e^- collisions at $\sqrt{s} = 130 - 172$ GeV”**
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- [82] **“Report of the 1997 LEP2 working group on searches”**
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- [83] **“Physics with e^+e^- linear colliders”**
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- [84] **“Measurement of the triple gauge boson coupling $\alpha_{W\phi}$ from W^+W^- production in e^+e^- collisions at $\sqrt{s} = 161$ GeV”**
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- [85] **“Detector for the linear collider: Baseline design for the conceptual design report”**
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- [86] **“Photonic events with large missing energy in e^+e^- collisions at $\sqrt{s} = 161$ GeV”**
 K. Ackerstaff *et al.* [OPAL Collaboration].
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