

Publications List (Prof Mark Andrew Thomson)

Publication List

In common with the majority of researchers in the field of High Energy Physics many of my publications are written as part of large international collaborations. For this reason I have divided my publication list into two parts:

- i) “Selected Publications”. Chosen to reflect my main research interests. In each case I made a major contribution to the physics analysis described and/or the writing of the paper.
- ii) “Full Publication List”. A full list of publications. In addition to papers which present the results of my own research, I have contributed directly to approximately 60 papers either by: coordinating the analysis (*e.g.* the majority of OPAL W-Physics publications); developing analysis methodology used (*e.g.* W^+W^- event identification and Maximum Entropy ECAL reconstruction); or in an internal editorial capacity.

Selected Publications

“Particle Flow Calorimetry and the PandoraPFA Algorithm”,
M.A. Thomson,
Nucl. Instr. and Meth. **A611** (2009) 25-40.

“Measurement of W pair production cross section and W decay branching fractions”,
OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C52** (2007) 767-785.

“Particle Flow Calorimetry at the ILC”,
M.A. Thomson,
Proceedings of HSSW06, Fermilab, September 2006, AIP Conference Proceedings 896, (2007),
215 – 224.

“Observations of muon neutrino disappearance with the MINOS detectors and the NuMI beam”,
MINOS Collaboration, D.G. Michael, *et al.*,
Phys. Rev. Lett. **97** (2006) 191801.

“Precision Electroweak Measurements on the Z Resonance”,
The ALEPH, DELPHI, L3, OPAL and SLD Collaborations,
Physics Reports 427 (2006) 257-454.

“First observations of separated atmospheric ν_μ and $\bar{\nu}_\mu$ events in the MINOS detector”,
MINOS Collaboration, P. Adamson, *et al.*,
Phys. Rev. **D73** (2006) 072002.

“Measurement of the mass and width of the W boson”,
OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C45** (2006) 307-335.

“Status of the MINOS Experiment”,
M.A. Thomson,
Nucl. Phys. B. (Proc Suppl.) 143 (2005) 249 – 256.

“Constraints on anomalous quartic gauge boson couplings from $\nu\bar{\nu}\gamma\gamma$ and $qq\gamma\gamma$ at LEP 2”,
OPAL Collaboration, G. Abbiendi *et al.*,
Phys. Rev. **D70** (2004) 032005.

“The TESLA Detector Concept”,
M.A. Thomson,
DESY-PROC-2004-01G (2004) 79-94.

“A Study of $W^+W^-\gamma$ Events at LEP”,
OPAL Collaboration, G. Abbiendi *et al.*,
Phys. Lett. **B580** (2004) 17-36.

“Measurement of the mass of the W boson at LEP”,
M.A. Thomson,
Proc. EPS-HEP Conference, Aachen, July 2003
Topical Volume of Eur. Phys. J. C Direct (2004).

“The Influence of the Experimental Methodology on the QED Theoretical Uncertainties on the W Boson Measurement at LEP”,
M.A. Thomson,
JHEP08 (2003) 009.

“Neutrino Oscillations”,
M.A. Thomson,
Phil. Trans. Roy. Soc. Lond. **A360** (2002) 921-938.

“Precise Determination of the Z Resonance Parameters at LEP : Zedometry”,
OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C19** (2001) 587-651.

“Measurement of the Mass and Width of the W Boson in e^+e^- Collisions at 189 GeV”,
OPAL Collaboration, G. Abbiendi *et al.*,
Phys. Lett. **B19** (2001) 29-46.

“ W^+W^- Production Cross Section and W Branching Fractions in e^+e^- Collisions at 189 GeV”,
OPAL Collaboration, G. Abbiendi *et al.*,
Phys. Lett. **B19** (2000) 249-265.

“Measurement of the $W^+W^-\gamma$ Cross-section and First Direct Limits on Anomalous Electroweak Quartic Gauge Couplings”,
OPAL Collaboration, G. Abbiendi *et al.*,
Phys. Lett. **B471** (1999) 293-307.

“Measurement of the W Mass and Width in e^+e^- Collisions at 183 GeV”,
OPAL Collaboration, G. Abbiendi *et al.*,
Phys. Lett. **B453** (1999) 138-152.

“Measurement of the W Boson Mass and W^+W^- Production and Decay Properties in e^+e^- Collisions at $\sqrt{s}=172$ GeV”,
OPAL Collaboration, K. Ackerstaff *et al.*,
Eur. Phys. J. **C1** (1998) 395-425.

“Measurement of the Mass of the W Boson in e^+e^- Collisions at $\sqrt{s} = 161$ GeV”,
OPAL Collaboration, K. Ackerstaff *et al.*,
Phys. Lett. **B389** (1996) 416-428.

“A Precise Measurement of the Tau Polarisation and its Forward-Backward Asymmetry at LEP”,
OPAL Collaboration, G. Alexander *et al.*,
Z. Phys. **C72** (1996) 365-376.

“The use of maximum entropy in electro-magnetic calorimeter event reconstruction”,
M.A. Thomson,
Nucl. Instr. and Meth. **A382** (1996) 553-560.

“Improved Measurements of the Neutral Current from Hadron and Lepton Production at LEP,”
OPAL Collaboration, R. Akers *et al.*,
Z. Phys. **C61** (1994) 19-34.

“The Observation of Underground Muons From the Direction of Cygnus X-3 During the January 1991 Radio Flare”,
M.A. Thomson *et al.*,
Phys. Lett. **B269** (1991) 220-226.

Full Publication List

- [1] “Particle Flow Calorimetry and the PandoraPFA Algorithm”,
M.A. Thomson,
Nucl. Instr. and Meth. **A611** (2009) 25-40.
- [2] “Sudden stratospheric warmings seen in MINOS deep underground muon data” MINOS
Collaboration, P. Adamson *et al.*,
Geophys. Res. Lett. **36** (2009) L05809.
- [3] “Cavity BPM system tests for the ILC energy spectrometer”, M.A Slater *et al.*,
NIMA5922008201-217.
- [4] “Particle Flow Calorimetry”,
M. Thomson,
J. Phys. Conf. Ser. 110:092032, 2008.
- [5] “The magnetized steel and scintillator calorimeters of the MINOS experiment”, MINOS
Collaboration, P. Adamson *et al.*,
Nucl. Instr. and Meth. **A596** (2008) 190-228.
- [6] “Search for active neutrino disappearance using neutral-current interactions in the MI-
NOS long-baseline experiment”,
MINOS Collaboration, P. Adamson *et al.*,
Phys. Rev. Lett. **101** (221804) 2008.
- [7] “Testing Lorentz Invariance and CPT Conservation with NuMI Neutrinos in the MINOS
Near Detector”,
MINOS Collaboration, P. Adamson *et al.*,
Phys. Rev. Lett. **101** (2008) 151601.
- [8] “Measurement of Neutrino Oscillations with the MINOS Detectors in the NuMI Beam”,
MINOS Collaboration, P. Adamson *et al.*,
Phys. Rev. Lett. **101** (2008) 131802.
- [9] “Design and Electronics Commissioning of the Physics Prototype of a Si-W Electromag-
netic Calorimeter for the International Linear Collider”,
CALICE Collaboration, J. Repond *et al.*,
JINST **3** (2008) P08001.
- [10] “Search for Dirac magnetic monopoles in e^+e^- collisions with the OPAL detector at
LEP2”,
OPAL Collaboration, G. Abbiendi *et al.*,
Phys. Lett. **B663** (2008) 37-42.
- [11] “Study of muon neutrino disappearance using the Fermilab Main injector beam”,
MINOS Collaboration, P. Adamson *et al.*,
Phys. Rev. **D77** (2008) 072002.
- [12] “Inclusive Jet Production in Photon-Photon Collisions at \sqrt{s} from 189 to 209 GeV”,
OPAL Collaboration, G. Abbiendi *et al.*,
Phys. Lett. **B658** (2008) 185-192.

- [13] “Performance of a High Resolution Cavity Beam Position Monitor System”,
Watson S., *et al.*,
Nucl. Instr. and Meth. **A578** (2007) 1-22.
- [14] “Measurement of α_S with radiative hadronic events”,
OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C53** (2008) 21-39.
- [15] “Measurement of neutrino velocity with the MINOS detectors and NuMI neutrino beam”,
MINOS Collaboration, P. Adamson *et al.*,
Phys. Rev. **D76** (2007) 072005.
- [16] “Bose-Einstein study of position-momentum correlations of charged pions in hadronic Z decays”,
OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C52** (2007) 787-803.
- [17] “Measurement of W pair production cross section and W decay branching fractions”,
OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C52** (2007) 767-785.
- [18] “Measurement of the atmospheric muon charge ratio at TeV energies with MINOS”,
MINOS Collaboration, P. Adamson *et al.*,
Phys. Rev. **D76** (2007) 052003.
- [19] “Progress with Particle Flow Calorimetry”
M.A. Thomson,
To appear in Proc. LCWS07, Hamburg, Germany, June 2007, arXiv:0709.1360.
- [20] “Charge-separated atmospheric neutrino-induced muons in the MINOS far detector”,
MINOS Collaboration, P. Adamson, *et al.*,
Phys. Rev. **D75** (2007) 092003.
- [21] “Inclusive production of charged hadrons in photon-photon collisions”,
OPAL Collaboration, G. Abbiendi *et al.*,
Phys. Lett. **B92** (2007) 92-101.
- [22] “Particle Flow Calorimetry at the ILC”,
M.A. Thomson,
Proceedings of HSSW06, Fermilab, September 2006
AIP Conference Proceedings 896, (2007), 215 – 224.
- [23] “Particle Flow Calorimetry at the ILC.”
M.A. Thomson, *et al.*,
Pramana 69, (2007), 1101 – 1108.
- [24] “Observations of muon neutrino disappearance with the MINOS detectors and the NuMI beam”
MINOS Collaboration, D.G. Michael, *et al.*,
Phys. Rev. Lett. **97** (2006) 191801.

- [25] “GLD Detector Outline Document”
GLD Concept Study Group, *et al.*,
arXiv:physics/0607145
- [26] “Precision Electroweak Measurements on the Z Resonance”
The ALEPH, DELPHI, L3, OPAL and SLD Collaborations,
Physics Reports 427 (2006) 257-454.
- [27] “QCD coherence and correlations of particles with restricted momenta in hadronic Z decays”
OPAL Collaboration, G. Abbiendi *et al.*,
Phys. Lett. **B638** (2006) 30-38.
- [28] “Measurement of the Strong Coupling α_s from four-jet observables in e^+e^- annihilation”
OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C47** (2006) 295-307.
- [29] “Particle flow calorimetry at the ILC”,
M.A. Thomson,
physics/0607261. To appear in the proceedings of Linear Collider Workshop (LCWS06),
Banagalore, India, 9-13 Mar 2006.
- [30] “First observations of separated atmospheric ν_μ and $\bar{\nu}_\mu$ events in the MINOS detector.”
MINOS Collaboration, P. Adamson, *et al.*,
Phys. Rev. **D73** (2006) 072002.
- [31] “Searches for Gauge-Mediated Supersymmetry Breaking Topologies in e^+e^- Collisions at LEP2”,
OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C46** (2006) 307-341.
- [32] “Determination of α_s Using Jet Rates at LEP with the OPAL Detector”,
OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C45** (2006) 547-568.
- [33] “Measurement of the mass and width of the W boson”,
OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C45** (2006) 307-335.
- [34] “Colour reconnection in $e^+e^- \rightarrow W^+W^-$ at $\sqrt{s}=189-209$ GeV”,
OPAL Collaboration, G. Abbiendi *et al.*,
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- [35] “Measurement of the running of the QED coupling in small-angle Bhabha scattering at LEP”,
OPAL Collaboration, G. Abbiendi *et al.*,
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- [36] “Measurements of R_b in e^+e^- collisions at 182-209 GeV”,
OPAL Collaboration, G. Abbiendi *et al.*,
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- [37] “Search for Radions at LEP2”,
OPAL Collaboration, G. Abbiendi *et al.*,
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- [38] “Flavour Independent hA Search and Two Higgs Doublet Model Interpretation of Neutral Higgs Boson Searches at LEP” OPAL Collaboration, G. Abbiendi *et al.*,
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OPAL Collaboration, G. Abbiendi *et al.*,
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OPAL Collaboration, G. Abbiendi *et al.*,
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- [41] “Multi-Photon Events with Large Missing Energy in e^+e^- Collisions at $\sqrt{s} = 192$ -209 GeV”,
OPAL Collaboration, G. Abbiendi *et al.*,
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- [42] “The TESLA Detector Concept”,
M.A. Thomson,
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OPAL Collaboration, G. Abbiendi *et al.*,
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OPAL Collaboration, G. Abbiendi *et al.*,
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OPAL Collaboration, G. Abbiendi *et al.*,
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OPAL Collaboration, G. Abbiendi *et al.*,
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OPAL Collaboration, G. Abbiendi *et al.*,
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OPAL Collaboration, G. Abbiendi *et al.*,
Phys. Rev. **D70** (2004) 032005.
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OPAL Collaboration, G. Abbiendi *et al.*,
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OPAL Collaboration, G. Abbiendi *et al.*,
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OPAL Collaboration, G. Abbiendi *et al.*,
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OPAL Collaboration, G. Abbiendi *et al.*,
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OPAL Collaboration, G. Abbiendi *et al.*,
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M. A. Thomson,
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- [59] “A Study of $W^+W^-\gamma$ Events at LEP”,
OPAL Collaboration, G. Abbiendi *et al.*,
Phys. Lett. **B580** (2004) 17-36.
- [60] “Search for Anomalous Production of Di-lepton Events with Missing Transverse Momentum in e^+e^- Collisions at $\sqrt{s}= 183-209$ GeV”,

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- [61] “Study of Z Pair Production and Anomalous Couplings in e^+e^- Collisions at \sqrt{s} between 190 GeV and 209 GeV”,
OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C32** (2004) 303-322.
- [62] “Search for the Single Production of Doubly-Charged Higgs Bosons and Constraints on their Couplings from Bhabha Scattering”,
OPAL Collaboration, G. Abbiendi *et al.*,
Phys. Lett. **B577** (2003) 93-108.
- [63] “Measurement of Heavy Quark Forward-Backward Asymmetries and Average B Mixing Using Leptons in Hadronic Z Decays”,
OPAL Collaboration, G. Abbiendi *et al.*,
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OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C31** (2003) 491-502.
- [65] “Di-Jet Production in Photon-Photon collisions at \sqrt{s} from 189 to 209 GeV”,
OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C31** (2003) 307-325.
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OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C31** (2003) 281-305.
- [67] “Search for Stable and Long-Lived Massive Charged Particles in e^+e^- Collisions at $\sqrt{s}=183-209$ GeV”,
OPAL Collaboration, G. Abbiendi *et al.*,
Phys. Lett. **B572** (2003) 8-20.
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OPAL Collaboration, G. Abbiendi *et al.*,
Phys. Lett. **B568** (2003) 181-190.
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M.A. Thomson,
JHEP08 (2003) 009.
- [70] “Search for the Standard Model Higgs Boson at LEP”,
ALEPH, DELPHI, L3, and OPAL Collaborations, The LEP working Group for Higgs Boson Searches,
Phys. Lett. **B565** (2003) 61-75.

- [71] “Bose-Einstein Correlations of π^0 pairs from hadronic Z Decays”,
OPAL Collaboration, G. Abbiendi *et al.*,
Phys. Lett. **B559** (2003) 131-143.
- [72] “A Measurement of Semileptonic B Decays to Narrow Orbitally-Excited Charm Mesons”,
OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C30** (2003) 467-475.
- [73] “A measurement of the $\tau \rightarrow \mu\nu_\tau\bar{\nu}_e$ branching ratio”,
OPAL Collaboration, G. Abbiendi *et al.*,
Phys. Lett. **B551** (2003) 35-48.
- [74] “Search for Nearly Mass Degenerate Charginos and Neutralinos at LEP”,
OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C29** (2003) 479-489.
- [75] “Inclusive Analysis of the b Quark Fragmentation Function in Z Decays at LEP”,
OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C29** (2003) 463-478.
- [76] “Measurement of the Cross-Section for the Process $\gamma\gamma \rightarrow p\bar{p}$ at $\sqrt{s}=183-189$ GeV at LEP”,
OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C28** (2003) 45-54.
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OPAL Collaboration, G. Abbiendi *et al.*,
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OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C27** (2003) 467-481.
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OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C27** (2003) 311-329.
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OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C26** (2003) 479-503.
- [81] “Multi-Photon Production in e^+e^- Collisions at 181-209 GeV”,
OPAL Collaboration, G. Abbiendi *et al.*,
Eur. Phys. J. **C26** (2003) 331-344.
- [82] “Measurement of the Mass of the W Boson in e^+e^- Collisions using the Fully Leptonic Channel”,
OPAL Collaboration, G. Abbiendi *et al.*,
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OPAL Collaboration, G. Abbiendi *et al.*,
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OPAL Collaboration, G. Abbiendi *et al.*,
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- [85] “Search for Scalar Top and Scalar Bottom Quarks at LEP”,
OPAL Collaboration, G. Abbiendi *et al.*,
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Eur. Phys. J. **C23** (2002) 397-407.
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- [365] “QCD Coherence Studies Using Two Particle Azimuthal Correlations”,
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- [366] “A Study of the Electric Charge Distributions of Quark and Gluon Jets in Hadronic Z^0
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- [367] “A Study of $K_S^0 K_S^0$ Bose-Einstein Correlations in Hadronic Z^0 Decays”,
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Phys. Lett. **B298** (1993) 456-468.
- [368] “A Search for Magnetic Monopoles with the Soudan-2 Detector”,
Soudan 2 Collaboration, J.L. Thron *et al.*,
Phys. Rev. **D46** (1992) 4846-4851.
- [369] “The Observation of Underground Muons From the Direction of Cygnus X-3 During the
January 1991 Radio Flare”,
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Selected Invited Talks and Research Presentations

In addition to the talks listed below, I have given numerous research presentations at CERN (Geneva, Switzerland), at Fermilab (Batavia, Illinois, USA) and at European linear collider workshops.

- “A Detector for a Multi-TeV Lepton Collider”,
Plenary talk, CLIC09, CERN, Switzerland, October 2009.
- “Particle Flow Calorimetry”,
Plenary talk, ALCPG, Albuquerque, US, September 2009.
- “The ILD Letter of Intent”,
Plenary talk, TILC09, Tsukuba, Japan, April 2009.
- “Particle Flow Calorimetry at CLIC ?”,
CLIC08, CERN, Switzerland, October 2008.
- “Particle Flow Calorimetry”,
CERN Detector Seminar, CERN, Switzerland, September 2008.
- “Particle Flow Calorimetry and the PandoraPFA Algorithm”,
DESY Seminar, DESY, Germany, July 2008.
- “Long Baseline Neutrino Oscillation Experiments”,
Plenary talk, Physics in Collision, Perugia, Italy, June 2008.
- “Particle Flow Calorimetry and the ILC”,
Seminar, University of Bonn, Germany, February 2008.
- “Recent Results from the MINOS Experiment”,
Seminar, IPPP, University of Durham, UK, January 2008.
- “Particle Flow Calorimetry”,
HEP2007, Manchester, UK, July 2007.
- “Progress with Particle Flow Calorimetry”,
LCWS07, DESY, Hamburg, Germany, June 2007.
- “Particle Flow Calorimetry and ILC Detector Design”,
Seminar, Imperial College London, UK, May 2007.
- “Particle Flow : QED ?”,
LAL, Paris, France, May 2007.
- “The International Linear Collider”,
Plenary talk, IOP HEP Meeting, University of Surrey, UK, April 2007.
- “Particle Flow Calorimetry and ILC Detector Design”,
HEP Seminar, Rutherford Appleton Laboratory, UK, February 2007.
- “Status of Particle Flow Calorimetry”,
ALPCG Seminar, Fermilab, Batavia, Illinois, U.S.A., December 2006.

- “Physics Simulation at the ILC”,
Plenary talk, ECFA-ILC Workshop, Valencia, Spain, November 2006.
- “Particle Flow Calorimetry at the ILC”,
Plenary talk, Hadron Shower Simulation 06, Fermilab, Batavia, Illinois, U.S.A., September 2006.
- “A Topological Approach to Particle Flow”,
LCWS06, Bangalore, India, March 2006
- “Particle Flow and ILC Detector Design”,
Seminar, Royal Holloway, University of London, February 2006.
- “Particle Flow”,
ECFA-ILC Workshop, Vienna, Austria, November 2005.
- “Particle Flow : Progress and Priorities”,
Snowmass ILC Workshop, Snowmass, Colorado, U.S.A., August 2005.
- “Overview of the GLD Detector Concept”,
Snowmass ILC Workshop, Snowmass, Colorado, U.S.A., August 2005.
- “The GLD Detector Concept”,
Plenary talk, ACFA8 Linear Collider Meeting, Daegu, S. Korea, July 2005.
- “Review of ILC Large Detector Concept”,
ILCD Gaseous Detector Workshop, LLR, Paris, January 2005.
- “Software Requirements for ILC Detector Optimisation”,
European ILC Software Meeting, DESY, Hamburg, Germany, December 2004.
- “Status of NuMI/MINOS”,
Plenary talk, Neutrino 2004, Paris, June 2004.
- “The Status of the CALICE Experiment”,
LCUK Meeting, Oxford, January 2004.
- “Neutrino Oscillations and the Status of the MINOS Experiment”,
Seminar at Birmingham University, January 2004.
- “Measurement of the W Boson Mass at LEP”,
EPS-HEP’03, Aachen, Germany, July 2003.
- “Neutrino Oscillations and the MINOS Experiment”,
NIKHEF Colloquium, Amsterdam, Holland, June 2003.
- “The TESLA Detector Concept”,
Plenary talk, ECFA-DESY Linear Collider Workshop, NIKHEF, Amsterdam, Holland, April 2003.
- “Kinematic Fitting and $\mathcal{O}(\alpha)$ Systematic Uncertainties on M_W ”,
WWMMIII, CERN, Switzerland, February 2003.

- “Status of Anomalous Quartic Gauge Coupling Studies at LEP”, WWMMI, Cetraro, Italy, October 2001.
- “The Discovery of the Higgs Boson ?”, Cambridge Physical Society, Cambridge, UK, November 2000.
- “Physics of the W Boson at LEP2”, Seminar, Manchester University, February 2000.
- “ $W^+W^-\gamma$ Cross-section and First Direct Limits on Anomalous Quartic Gauge Couplings”, EPS-HEP’99, Tampere, Finland, July 1999.
- “Measurement of M_W at LEP”, ICHEP’98, Vancouver, Canada, July 1998.