

List of publications, conference contributions and talks by Oliver Passon (until 12/2006)

Books

1. O. Passon,
“Bohmsche Mechanik – Eine elementare Einführung in die deterministische Interpretation der Quantenmechanik”,
Verlag Harri Deutsch, Frankfurt, 2004.

Peer reviewed publications¹

1. O. Passon, “What You Always Wanted to Know about Bohmian Mechanics but Were Afraid to Ask”, *Physics and Philosophy*;3, 2006 (<http://physphil.uni-dortmund.de/>) [arXiv:quant-ph/0611032].
2. O. Passon, S. Birmanns, M. Boltes, H. Zilken and W. Wriggers, “Laplace-filter enhanced haptic rendering of macromolecules”, *Vision Modeling and Visualization 2005*, G. Greiner, J. Hornegger, H. Niemann and M. Stamminger (Eds.), Akademische Verlagsgesellschaft Berlin, 2005.
3. J. Abdallah et al. [DELPHI Coll.], “Measurement of the energy dependence of hadronic jet rates and the strong coupling α_s from the four-jet rate with the DELPHI detector at LEP”, *Eur.Phys.J. C38* (2005) 413-426 [arXiv:hep-ex/0410071].
4. O. Passon, “How to teach Quantum Mechanics”, *Eur. J. Phys.* 25 (2004) 765-769 [arXiv:quant-ph/0404128].
5. J. Abdallah *et al.* [DELPHI Coll.], “The measurement of α_s from event shapes with the DELPHI detector at the highest LEP energies”, *Eur.Phys.J.C37* (2004) 1-23 [arXiv:hep-ex/0406011].
6. J. Abdallah *et al.* [DELPHI Coll.], “A study of the energy evolution of event shape distributions and their means with the DELPHI detector at LEP”, *Eur. Phys. J. C* **29**, (2003) 285 [arXiv:hep-ex/0307048].
7. P. Abreu *et al.* [DELPHI Coll.], “Energy dependence of inclusive spectra in e^+e^- annihilation”, *Phys. Lett. B* **459**, (1999) 397.
8. O. Passon, “Photonen in der Schulphysik”, *Physik in der Schule*, Pädagogischer Zeitschriftenverlag Berlin, Heft 7/8 1997.

¹In addition there are more than 130 DELPHI papers for which the co-authorship was acquired through the participation on measuring shifts and the discussion of the results within the DELPHI collaboration. These publications are listed in the section “Co-authorship of Journal publications”

Publications in conference proceedings

1. O. Passon, “The present situation in the determination of α_s ”, V. Kim and L. Lipatov (Eds.), *Proceedings of the XI international workshop on deep inelastic scattering DIS2003*, PNPI, St. Petersburg, 2003 [arXiv:hep-ph/0308314].
2. O. Passon, “Measurement of α_s and the β function with the DELPHI detector at LEP”, Talk on the QCD 2002 conference, Montpellier (France). Published in Nucl.Phys.B (Proc. Suppl.) June 2003, [arXiv:hep-ph/0309023].
3. O. Passon, “Status of Fragmentation Function Analysis at DELPHI ”, Talk on the RIKEN BNL workshop *Future Transversity Measurements*, Brookhaven, New York (USA) (September 2001) BNL-52612 (Formal Report).
4. O. Passon, “Test of QCD predictions for multiparticle production at LEP”, T. Csörgö, S. Hegyi and W. Kittel (Eds.), *Proceedings of the XXX International Symposium on Multiparticle Dynamics*, World Scientific, 2001 [arXiv:hep-ph/0101153].
5. O. Passon “Selected QCD Results of DELPHI”, talk presented at *Frontiers in Contemporary Physics II*, Nashville, USA, 2001, published online at <http://www.fcp01.vanderbilt.edu>.
6. O. Passon, “Studies on Power Corrections to Differential Event Shapes and Mean Values”, K. Huitu, H. Kurki-Suonio and J. Maalampi (Eds.), *Proceedings of the EPS HEP99 Conference in Tampere (Finland)*, IOP Publishing (Bristol,UK).

Conference contributions and preprints

1. W. Wriggers, S. Birmanns, M. Boltes and O. Passon, “Interactive Multi-Resolution Modeling by Adaptive Visuo-Haptic Rendering and Laplacian Filtering”, Poster presentation on the *Biophysical Society Meeting 2005*, February 12-16 in Long Beach, CA (USA).
2. “Why isn’t every physicist a Bohmian?”, quant-ph/0412119
3. O. Passon and R. Reinhardt, “Inclusive spectra and event shape distribution measured with the DELPHI detector at LEP”, June 2004, DELPHI 2004-009 PHYS 941 (*Prepared for the Durham RAL database*).
4. O. Passon, J. Drees, K. Hamacher and D. Wicke, “The measurement of α_s from event shapes with the DELPHI detector at the highest LEP energies”, contributed to EPS 2003 conference, Aachen, DELPHI 2003-19 CONF 639.

5. O. Passon, J. Drees, K. Hamacher and D. Wicke, “The measurement of α_s from event shapes with the DELPHI detector at LEP”, contributed to ICHEP 2002, Amsterdam, DELPHI 2002-50 CONF 584.
6. O. Passon, R. Reinhardt, K. Hamacher and D. Wicke, “A study of the energy evolution of event shape distributions and their means with the DELPHI detector at LEP”, contributed to ICHEP 2002, Amsterdam, DELPHI 2002-49 CONF 583.
7. R. Reinhardt, U. Flammeyer, K. Hamacher, O. Passon and D. Wicke, “A Study of the energy evolution of event shape distributions and their means with the DELPHI Detector at LEP”, contribution to EPS 2001, Budapest and Lepton Photon 2001, Rome, DELPHI 2001-62 CONF 490.
8. J. Drees, U. Flammeyer, K. Hamacher, O. Passon, R. Reinhardt and D. Wicke, “QCD Results from the DELPHI Measurements of Event Shape and Inclusive Particle Distributions at the highest LEP energies”, contribution to EPS 2001, Budapest and Lepton Photon 2001, Rome, DELPHI 2001-65 CONF 493.
9. U. Flammeyer, J. Drees, K. Hamacher, O. Passon, R. reinhardt and D. Wicke, “Measurement of the strong coupling α_s and its energy dependence from the four jet rate of hadronic events with the DELPHI detector at LEP”, contribution to EPS 2001, Budapest and Lepton Photon 2001, Rome DELPHI 2001-59 CONF 487.
10. J. Drees, U. Flammeyer, K. Hamacher, O. Passon, R. Reinhardt and D. Wicke, “The Running of the Strong Coupling and a Study of Power Corrections to Hadronic Event Shapes with the DELPHI Detector at LEP”, submitted to ICHEP 2000, Osaka, DELPHI 2000-116 CONF 415.
11. O. Passon, “Comparison of Event Shape Distributions below and above 205.5 GeV”, submitted to ICHEP 2000, Osaka, DELPHI 2000-152 PHYS 870.
12. J. Drees, U. Flammeyer, K. Hamacher, O. Passon, R. Reinhardt and D. Wicke, “QCD Results from the DELPHI Measurements of Event Shape and Inclusive Particle Distributions from 192 to 202 GeV”, submitted to ICHEP 2000, Osaka, DELPHI 2000-022 MORIO CONF 343.
13. J. Drees, U. Flammeyer, K. Hamacher, O. Passon, R. Reinhardt and D. Wicke [DELPHI Collaboration], “QCD results from the DELPHI measurements of event shape and inclusive particle distributions between 41 GeV and 189 GeV”, CERN-OPEN-99-387 *Prepared for International Europhysics Conference on High-Energy Physics (EPS-HEP 99), Tampere, Finland, 15-21 Jul 1999*

14. O. Passon, J. Drees and K. Hamacher [DELPHI Collaboration], “Inclusive spectra at 189 GeV”, CERN-OPEN-99-403 *Prepared for International Europhysics Conference on High-Energy Physics (EPS-HEP 99), Tampere, Finland, 15-21 Jul 1999*
15. J. Drees, U. Flammeyer, K. Hamacher, O. Passon, R. Reinhardt and D. Wicke [DELPHI Collaboration], “QCD results from the DELPHI measurements of event shape and inclusive particle distributions between 48 GeV and 189 GeV”, CERN-OPEN-99-452 *Prepared for 34th Rencontres de Moriond: Electroweak Interactions and Unified Theories, Les Arcs, France, 13-20 Mar 1999*
16. J.Drees, U.Flammeyer, K.Hamacher, O.Passon, R.Reinhardt and D.Wicke [DELPHI Collaboration], “QCD Results from the DELPHI Measurements of Event Shapes and inclusive Particle Distributions at 183 GeV”, Conference Contribution for Moriond’98, DELPHI 98-18 CONF.
17. K.Hamacher, O.Passon, R.Reinhardt and D.Wicke [DELPHI Collaboration], “Compilation of some DELPHI QCD Results for the LEP QCD Working Group”, DELPHI 98-22 PHYS 766.
18. J.Drees, A.Grefrath, K.Hamacher, A.Malek, O.Passon and D.Wicke [DELPHI Collaboration], “QCD Results from the DELPHI Measurement at 161 and 172 GeV”, submitted to the HEP’97 Conference Jerusalem, DELPHI 97-92 CONF 77.
19. J.Drees, A.Grefrath, K.Hamacher, A.Malek, O.Passon and D.Wicke [DELPHI Collaboration], “Selected QCD Results from the DELPHI Measurement at 161 and 172 GeV”, DELPHI 97-25 PHYS-680.

Thesis

1. “Test der perturbativen QCD in der e^+e^- Annihilation”, Dissertation, Wuppertal Juli 2002, WUB-DIS 2002-6
2. “Untersuchung der Energieabhängigkeit inklusiver Spektren in der e^+e^- Annihilation“, Diplomarbeit, Wuppertal Nov. 1997, WUD-44.

Selected talks

1. “Fitting von Biomolekülen unter Einsatz von VR und Force-Feedback”, Vortrag auf dem Treffen des AK Multimedia und Grafik, Uni Köln, 8.-10.11.2006.

2. "Was sie schon immer über Bohmsche Mechanik wissen wollten und sich nicht zu fragen trauten", eingeladener Hauptvortrag auf der DPG Frühjahrstagung, Dortmund, 2006 und eingeladener Vortrag im Seminar für theoretische Physik, Universität Münster (Oktober 2006).
3. "Quantum Logic", Seminar zur Quanteninformationstheorie, 21.11.2005, Wuppertal
4. "Laplace-filter enhanced docking of macro molecules using VR techniques", Workshop der Gesellschaft für Informatik, 27.9.2005, Aachen
5. "Visualisierung von Molekülen", ZAM Kurs, 2005, Jülich
6. "Die Single Top Analyse bei ATLAS", Top Seminar, 2004, Wuppertal
7. "How to teach Quantum Mechanics", 2004, Frühjahrsschule Physik und Philosophie, Maria in der Aue
8. "Is quantum mechanics deterministic?", Seminar 2003, Wuppertal
9. "Higgs Zerfälle in $t\bar{t}$ ", Top Seminar 2003, Wuppertal
10. "Strong Electroweak Symmetry Breaking", Higgs Seminar, 2003, Wuppertal
11. "Theoretische Fehler bei der Bestimmung der starken Kopplung", DPG Tagung Teilchenphysik, 2003, Aachen
12. "Renormierungsschemen unabhängige Messung der QCD β -Funktion", DPG Tagung Teilchenphysik, 2002, Leipzig
13. "Messungen von α_s bei höchsten Energien mit dem DELPHI Detektor bei LEP", DPG Tagung Teilchenphysik, 2002, Leipzig
14. "Bestimmung von α_s aus Eventshape-Verteilungen bei LEP, Renormierungsskalen Abhängigkeit, Potenzkorrekturen and all that...", DPG Tagung Teilchenphysik, 2001, Bonn
15. "Top Quark und Effekte jenseits des Standardmodells", Top Seminar, 2001, Wuppertal
16. "Qbits, Quantengatter und Quantencomputer", Quantencomputing Seminar, 21.11. 2000, Wuppertal
17. "Messung von α_s mit hadronischen Ereignisformvariablen von 41 bis 200 GeV", DPG Tagung Teilchenphysik, 2000, Dresden
18. "Energieabhängigkeit inklusiver Spektren in der e^+e^- Annihilation und ein Test der lokalen Parton Hadron Dualität", DPG Tagung Teilchenphysik, 1998, Freiburg

Co-authorship of Journal publications

1. J. Abdallah *et al.* [DELPHI Collaboration], “A determination of the centre-of-mass energy at LEP2 using radiative 2-fermion events,” *Eur. Phys. J. C* **46** (2006) 295 [arXiv:hep-ex/0602016].
2. S. Schael *et al.* [LEP Working Group for Higgs Boson Searches], “Search for neutral MSSM Higgs bosons at LEP,” *Eur. Phys. J. C* **47** (2006) 547 [arXiv:hep-ex/0602042].
3. J. Abdallah *et al.* [DELPHI Collaboration], “Evidence for an excess of soft photons in hadronic decays of Z^0 ,” *Eur. Phys. J. C* **47** (2006) 273 [arXiv:hep-ex/0604038].
4. J. Abdallah *et al.* [DELPHI Collaboration], “Measurement and interpretation of fermion-pair production at LEP energies above the Z resonance,” *Eur. Phys. J. C* **45** (2006) 589 [arXiv:hep-ex/0512012].
5. J. Abdallah *et al.* [DELPHI Collaboration], “Production of Ξ_c^0 and Ξ_b in Z decays and lifetime measurement of Ξ_b ,” *Eur. Phys. J. C* **44** (2005) 299 [arXiv:hep-ex/0510023].
6. J. Abdallah *et al.* [DELPHI Collaboration], “Study of double-tagged $\gamma\gamma$ events at LEP II,” *Eur. Phys. J. C* **46** (2006) 559 [arXiv:hep-ex/0604039].
7. J. Abdallah *et al.* [DELPHI Collaboration], “Charged particle multiplicity in three-jet events and two-gluon systems,” *Eur. Phys. J. C* **44** (2005) 311 [arXiv:hep-ex/0510025].
8. J. Abdallah *et al.* [DELPHI Collaboration], “Single intermediate vector boson production in e^+e^- collisions at $\sqrt{s} = 183\text{GeV} - 209\text{GeV}$,” *Eur. Phys. J. C* **45** (2006) 273 [arXiv:hep-ex/0601040].
9. J. Abdallah *et al.* [DELPHI Collaboration], “Determination of the b quark mass at the M_Z scale with the DELPHI detector at LEP,” *Eur. Phys. J. C* **46** (2006) 569 [arXiv:hep-ex/0603046].
10. J. Abdallah *et al.* [DELPHI Collaboration], “Determination of heavy quark non-perturbative parameters from spectral moments in semileptonic B decays,” *Eur. Phys. J. C* **45** (2006) 35 [arXiv:hep-ex/0510024].
11. J. Abdallah *et al.* [DELPHI Collaboration], “Determination of A(FB)(b) at the Z pole using inclusive charge reconstruction and lifetime tagging,” *Eur. Phys. J. C* **40** (2005) 1 [arXiv:hep-ex/0412004].
12. J. Abdallah *et al.* [DELPHI Collaboration], “Bose-Einstein correlations in W^+W^- events at LEP2,” *Eur. Phys. J. C* **44** (2005) 161 [arXiv:hep-ex/0507066].

13. J. Abdallah *et al.* [DELPHI Collaboration], “Search for excited leptons in e^+e^- collisions at $\sqrt{s} = 189\text{GeV} - 209\text{GeV}$,” *Eur. Phys. J. C* **46** (2006) 277 [arXiv:hep-ex/0603045].
14. J. Abdallah *et al.* [DELPHI Collaboration], “Flavour independent searches for hadronically decaying neutral Higgs bosons,” *Eur. Phys. J. C* **44** (2005) 147 [arXiv:hep-ex/0510022].
15. J. Abdallah *et al.* [DELPHI Collaboration], “Searches for neutral Higgs bosons in extended models,” *Eur. Phys. J. C* **38** (2004) 1 [arXiv:hep-ex/0410017].
16. J. Abdallah *et al.* [DELPHI Collaboration], “Coherent soft particle production in Z decays into three jets,” *Phys. Lett. B* **605** (2005) 37 [arXiv:hep-ex/0410075].
17. J. Abdallah *et al.* [DELPHI Collaboration], “Determination of the $e^+e^- \rightarrow \gamma \gamma$ (γ) cross-section at LEP 2,” *Eur. Phys. J. C* **37** (2004) 405 [arXiv:hep-ex/0409058].
18. J. Abdallah *et al.* [DELPHI Collaboration], “Measurement of $|V_{cb}|$ using the semileptonic decay $\overline{B}_d^0 \rightarrow D^{*+}l^-\bar{\nu}_l$,” *Eur. Phys. J. C* **33** (2004) 213 [arXiv:hep-ex/0401023].
19. J. Abdallah *et al.* [DELPHI Collaboration], “Search for fermiophobic Higgs bosons in final states with photons at LEP 2,” *Eur. Phys. J. C* **35** (2004) 313 [arXiv:hep-ex/0406012].
20. J. Abdallah *et al.* [DELPHI Collaboration], “Photon events with missing energy in e^+e^- collisions at $\sqrt{s} = 130\text{GeV}$ to 209GeV ,” *Eur. Phys. J. C* **38** (2005) 395 [arXiv:hep-ex/0406019].
21. J. Abdallah *et al.* [DELPHI Collaboration], “A measurement of the tau hadronic branching ratios,” *Eur. Phys. J. C* **46** (2006) 1 [arXiv:hep-ex/0603044].
22. J. Abdallah *et al.* [DELPHI Collaboration], “Measurement of the W pair production cross-section and W branching ratios in e^+e^- collisions at $\sqrt{s} = 161\text{GeV}$ to 209GeV ,” *Eur. Phys. J. C* **34** (2004) 127 [arXiv:hep-ex/0403042].
23. J. Abdallah *et al.* [DELPHI Collaboration], “Measurement of the forward-backward asymmetries of $e^+e^- \rightarrow Z \rightarrow b$ anti-b and $e^+e^- \rightarrow Z \rightarrow c$ anti-c using prompt leptons,” *Eur. Phys. J. C* **34** (2004) 109 [arXiv:hep-ex/0403041].
24. J. Abdallah *et al.* [DELPHI Collaboration], “Search for B/s0 - anti-B/s0 oscillations in DELPHI using high-p(t) leptons,” *Eur. Phys. J. C* **35** (2004) 35 [arXiv:hep-ex/0404013].

25. J. Abdallah *et al.* [DELPHI Collaboration], “Search for charged Higgs bosons at LEP in general two Higgs doublet models,” *Eur. Phys. J. C* **34** (2004) 399 [arXiv:hep-ex/0404012].
26. J. Abdallah *et al.* [DELPHI Collaboration], “Search for single top production via FCNC at LEP at $\sqrt{s} = 189\text{GeV} - 208\text{GeV}$,” *Phys. Lett. B* **590** (2004) 21 [arXiv:hep-ex/0404014].
27. J. Abdallah *et al.* [DELPHI Collaboration], “Search for supersymmetric particles assuming R-parity non-conservation in e^+e^- collisions at $\sqrt{s} = 192\text{GeV}$ to 208GeV ,” *Eur. Phys. J. C* **36** (2004) 1 [*Eur. Phys. J. C* **37** (2004) 129] [arXiv:hep-ex/0406009].
28. J. Abdallah *et al.* [DELPHI Collaboration], “Study of tau-pair production in photon photon collisions at LEP and limits on the anomalous electromagnetic moments of the tau lepton,” *Eur. Phys. J. C* **35** (2004) 159 [arXiv:hep-ex/0406010].
29. J. Abdallah *et al.* [DELPHI Collaboration], “Measurement of the $e^+e^- \rightarrow W^+W^- \gamma$ cross-section and limits on anomalous quartic gauge couplings with DELPHI,” *Eur. Phys. J. C* **31** (2003) 139 [arXiv:hep-ex/0311004].
30. J. Abdallah *et al.* [DELPHI Collaboration], “Searches for supersymmetric particles in e^+e^- collisions up to 208GeV and interpretation of the results within the MSSM,” *Eur. Phys. J. C* **31** (2004) 421 [arXiv:hep-ex/0311019].
31. J. Abdallah *et al.* [DELPHI Collaboration], “Search for SUSY in the AMSB scenario with the DELPHI detector,” *Eur. Phys. J. C* **34** (2004) 145 [arXiv:hep-ex/0403047].
32. J. Abdallah *et al.* [DELPHI Collaboration], “A precise measurement of the tau lifetime,” *Eur. Phys. J. C* **36** (2004) 283 [arXiv:hep-ex/0410010].
33. J. Abdallah *et al.* [DELPHI Collaboration], “Searches for invisibly decaying Higgs bosons with the DELPHI detector at LEP,” *Eur. Phys. J. C* **32** (2004) 475 [arXiv:hep-ex/0401022].
34. J. Abdallah *et al.* [DELPHI Collaboration], “The $\eta_c(2980)$ formation in two-photon collisions at LEP energies,” *Eur. Phys. J. C* **31** (2003) 481 [arXiv:hep-ex/0311002].
35. J. Abdallah *et al.* [DELPHI Collaboration], “A precise measurement of the B^+ , B^0 and mean b-hadron lifetime with the DELPHI detector at LEP I,” *Eur. Phys. J. C* **33** (2004) 307 [arXiv:hep-ex/0401025].

36. J. Abdallah *et al.* [DELPHI Collaboration], “Study of inclusive J/ψ production in two-photon collisions at LEP II with the DELPHI detector,” *Phys. Lett. B* **565** (2003) 76 [arXiv:hep-ex/0307049].
37. J. Abdallah *et al.* [DELPHI Collaboration], “Measurement of inclusive $f_1(1285)$ and $f_1(1420)$ production in Z decays with the DELPHI detector,” *Phys. Lett. B* **569** (2003) 129 [arXiv:hep-ex/0309057].
38. J. Abdallah *et al.* [DELPHI Collaboration], “A measurement of the branching fractions of the b-quark into charged and neutral b-hadrons,” *Phys. Lett. B* **576** (2003) 29 [arXiv:hep-ex/0311005].
39. J. Abdallah *et al.* [DELPHI Collaboration], “Measurement of the Λ_{b0} decay form factor,” *Phys. Lett. B* **585** (2004) 63 [arXiv:hep-ex/0403040].
40. R. Barate *et al.* [LEP Working Group for Higgs boson searches], “Search for the standard model Higgs boson at LEP,” *Phys. Lett. B* **565** (2003) 61 [arXiv:hep-ex/0306033].
41. J. Abdallah *et al.* [DELPHI Collaboration], “Final results from DELPHI on the searches for SM and MSSM neutral Higgs bosons,” *Eur. Phys. J. C* **32** (2004) 145 [arXiv:hep-ex/0303013].
42. J. Abdallah *et al.* [DELPHI Collaboration], “Z Z production in e^+e^- interactions at $\sqrt{s} = 183\text{GeV}$ to 209GeV ,” *Eur. Phys. J. C* **30** (2003) 447 [arXiv:hep-ex/0307050].
43. J. Abdallah *et al.* [DELPHI Collaboration], “Search for resonant sneutrino production at $\sqrt{s} = 183\text{GeV}$ to 208GeV ,” *Eur. Phys. J. C* **28** (2003) 15 [arXiv:hep-ex/0303033].
44. J. Abdallah *et al.* [DELPHI Collaboration], “Inclusive b decays to wrong sign charmed mesons,” *Phys. Lett. B* **561** (2003) 26 [arXiv:hep-ex/0303031].
45. J. Abdallah *et al.* [DELPHI Collaboration], “Search for B/s0 anti-B/s0 oscillations and a measurement of B/d0 anti-B/d0 oscillations using events with an inclusively reconstructed vertex,” *Eur. Phys. J. C* **28** (2003) 155 [arXiv:hep-ex/0303032].
46. J. Abdallah *et al.* [DELPHI Collaboration], “Search for doubly charged Higgs bosons at LEP2,” *Phys. Lett. B* **552** (2003) 127 [arXiv:hep-ex/0303026].
47. J. Abdallah *et al.* [DELPHI Collaboration], “Search for supersymmetric particles in light gravitino scenarios and sleptons NLSP,” *Eur. Phys. J. C* **27** (2003) 153 [arXiv:hep-ex/0303025].

48. J. Abdallah *et al.* [DELPHI Collaboration], “b-tagging in DELPHI at LEP,” *Eur. Phys. J. C* **32** (2004) 185 [arXiv:hep-ex/0311003].
49. J. Abdallah *et al.* [DELPHI Collaboration], “Search for an LSP gluino at LEP with the DELPHI detector,” *Eur. Phys. J. C* **26** (2003) 505 [arXiv:hep-ex/0303024].
50. J. Abdallah *et al.* [DELPHI Collaboration], “Rapidity-alignment and p(T) compensation of particle pairs in hadronic Z0 decays,” *Phys. Lett. B* **533** (2002) 243 [arXiv:hep-ex/0204038].
51. J. Abdallah *et al.* [DELPHI Collaboration], “Searches for neutral Higgs bosons in e^+e^- collisions from $\sqrt{s} = 191.6\text{GeV}$ to 201.7GeV ,” *Eur. Phys. J. C* **23** (2002) 409 [arXiv:hep-ex/0201022].
52. J. Abdallah *et al.* [DELPHI Collaboration], “Search for technicolor with DELPHI,” *Eur. Phys. J. C* **22** (2001) 17 [arXiv:hep-ex/0110056].
53. P. Abreu *et al.* [DELPHI Collaboration], “Search for charged Higgs bosons in e^+e^- collisions at $\sqrt{s} = 189\text{GeV} - 202\text{GeV}$,” *Phys. Lett. B* **525** (2002) 17 [arXiv:hep-ex/0201023].
54. P. Abreu *et al.* [DELPHI Collaboration], “Single intermediate vector boson production in e^+e^- collisions at $\sqrt{s} = 183\text{GeV}$ and 189GeV ,” *Phys. Lett. B* **515** (2001) 238 [arXiv:hep-ex/0107067].
55. P. Abreu *et al.* [DELPHI Collaboration], “A measurement of the tau topological branching ratios,” *Eur. Phys. J. C* **20** (2001) 617 [arXiv:hep-ex/0105047].
56. P. Abreu *et al.* [DELPHI Collaboration], “Measurement of the semileptonic b branching fractions and average b mixing parameter in Z decays,” *Eur. Phys. J. C* **20** (2001) 455 [arXiv:hep-ex/0105080].
57. P. Abreu *et al.* [DELPHI Collaboration], “Search for a fermiophobic Higgs at LEP 2,” *Phys. Lett. B* **507** (2001) 89 [arXiv:hep-ex/0104025].
58. P. Abreu *et al.* [DELPHI Collaboration], “Measurement of the mass and width of the W boson in e^+e^- collisions at $\sqrt{s} = 189\text{GeV}$,” *Phys. Lett. B* **511** (2001) 159 [arXiv:hep-ex/0104047].
59. P. Abreu *et al.* [DELPHI Collaboration], “Update of the search for supersymmetric particles in scenarios with gravitino LSP and sleptons NLSP,” *Phys. Lett. B* **503** (2001) 34 [arXiv:hep-ex/0102038].
60. P. Abreu *et al.* [DELPHI Collaboration], “Measurement of trilinear gauge boson couplings W W V, ($V = Z, \gamma$) in e^+e^- collisions at 189GeV ,” *Phys. Lett. B* **502** (2001) 9 [arXiv:hep-ex/0102041].

61. P. Abreu *et al.* [DELPHI Collaboration], “Measurement of $V(cb)$ from the decay process $\text{anti-B0} \rightarrow \text{D}^* + \text{l}^- + \text{anti-}\nu$,” *Phys. Lett. B* **510** (2001) 55 [arXiv:hep-ex/0104026].
62. P. Abreu *et al.* [DELPHI Collaboration], “Search for the standard model Higgs boson at LEP in the year 2000,” *Phys. Lett. B* **499** (2001) 23 [arXiv:hep-ex/0102036].
63. P. Abreu *et al.* [DELPHI Collaboration], “Search for sleptons in e^+e^- collisions at $\sqrt{s} = 183\text{GeV}$ to 189GeV ,” *Eur. Phys. J. C* **19** (2001) 29 [arXiv:hep-ex/0104007].
64. P. Abreu *et al.* [DELPHI Collaboration], “Search for the sgoldstino at \sqrt{s} from 189GeV to 202GeV ,” *Phys. Lett. B* **494** (2000) 203 [arXiv:hep-ex/0102044].
65. P. Abreu *et al.* [DELPHI Collaboration], “Search for spontaneous R-parity violation at $\sqrt{s} = 183\text{GeV}$ and 189GeV ,” *Phys. Lett. B* **502** (2001) 24 [arXiv:hep-ex/0102045].
66. P. Abreu *et al.* [DELPHI Collaboration], “Search for R-parity violation with a U-bar D-bar D-bar coupling at $\sqrt{s} = 189\text{GeV}$,” *Phys. Lett. B* **500** (2001) 22 [arXiv:hep-ex/0103015].
67. P. Abreu *et al.* [DELPHI Collaboration], “Determination of the $e^+e^- \rightarrow \gamma\gamma$ (γ) cross-section at centre-of-mass energies ranging from 189GeV to 202GeV ,” *Phys. Lett. B* **491** (2000) 67 [arXiv:hep-ex/0103005].
68. P. Abreu *et al.* [DELPHI Collaboration], “Search for neutralino pair production at $\sqrt{s} = 189\text{GeV}$,” *Eur. Phys. J. C* **19** (2001) 201 [arXiv:hep-ex/0102034].
69. P. Abreu *et al.* [DELPHI Collaboration], “Search for supersymmetric partners of top and bottom quarks at $\sqrt{s} = 189\text{ GeV}$,” *Phys. Lett. B* **496** (2000) 59 [arXiv:hep-ex/0103034].
70. P. Abreu *et al.* [DELPHI Collaboration], “Rapidity-rank structure of p anti- p pairs in hadronic Z^0 decays,” *Phys. Lett. B* **490** (2000) 61 [arXiv:hep-ex/0105050].
71. P. Abreu *et al.* [DELPHI Collaboration], “Limits on the masses of supersymmetric particles at $\sqrt{s} = 189\text{GeV}$,” *Phys. Lett. B* **489** (2000) 38 [arXiv:hep-ex/0103014].
72. P. Abreu *et al.* [DELPHI Collaboration], “Measurement of the $Z Z$ cross-section in e^+e^- interactions at 183GeV - 189GeV ,” *Phys. Lett. B* **497** (2001) 199 [arXiv:hep-ex/0103004].

73. P. Abreu *et al.* [DELPHI Collaboration], “Search for SUSY with R-parity violating $LL\bar{E}$ couplings at $\sqrt{s} = 189$ GeV,” Phys. Lett. B **487** (2000) 36 [arXiv:hep-ex/0103006].
74. P. Abreu *et al.* [DELPHI Collaboration], “A search for invisible Higgs bosons produced in e^+e^- interactions up to $\sqrt{s} = 189$ GeV,” CERN-EP-2000-051
75. P. Abreu *et al.* [DELPHI Collaboration], “Searches for neutral Higgs bosons in e^+e^- collisions around $\sqrt{s} = 189$ GeV,” Eur. Phys. J. C **17** (2000) 187 [Addendum-ibid. C **17** (2000) 549] [arXiv:hep-ex/0104020].
76. P. Abreu *et al.* [DELPHI Collaboration], “Study of B0(S) - anti-B0(S) oscillations and B0(S) lifetimes using hadronic decays of B0(S) mesons,” Eur. Phys. J. C **18** (2000) 229 [arXiv:hep-ex/0105077].
77. P. Abreu *et al.* [DELPHI Collaboration], “Determination of $|V_{ub}|/|V_{cb}|$ with DELPHI at LEP,” Phys. Lett. B **478** (2000) 14 [arXiv:hep-ex/0105054].
78. P. Abreu *et al.* [DELPHI Collaboration], “Charged and Identified Particles in the Hadronic Decay of W Bosons and in $e^+e^- \rightarrow q \bar{q}$ from 130 to 200 GeV,” Eur. Phys. J. C **18** (2000) 203 [Erratum-ibid. C **25** (2002) 493] [arXiv:hep-ex/0103031].
79. P. Abreu *et al.* [DELPHI Collaboration], “W pair production cross-section and W branching fractions in e^+e^- interactions at 189GeV,” Phys. Lett. B **479** (2000) 89 [arXiv:hep-ex/0103013].
80. P. Abreu *et al.* [DELPHI Collaboration], “Measurement and Interpretation of Fermion-Pair Production at LEP Energies of 183 and 189 GeV,” Phys. Lett. B **485** (2000) 45 [arXiv:hep-ex/0103025].
81. P. Abreu *et al.* [DELPHI Collaboration], “Update of the search for charginos nearly mass-degenerate with the lightest neutralino,” Phys. Lett. B **485** (2000) 95 [arXiv:hep-ex/0103035].
82. P. Abreu *et al.* [DELPHI Collaboration], “Study of Dimuon Production in Photon-Photon Collisions and Measurement of QED Photon Structure Functions at LEP,” Eur. Phys. J. C **19** (2001) 15 [arXiv:hep-ex/0105084].
83. P. Abreu *et al.* [DELPHI Collaboration], “A study of the Lorentz structure in tau decays,” Eur. Phys. J. C **16** (2000) 229 [arXiv:hep-ex/0107076].
84. P. Abreu *et al.* [DELPHI Collaboration], “Measurement of the B/s0 lifetime and study of B/s0 anti-B/s0 oscillations using D/s l events,” Eur. Phys. J. C **16** (2000) 555 [arXiv:hep-ex/0107077].

85. P. Abreu *et al.* [DELPHI Collaboration], “Consistent measurements of α_s from precise oriented event shape distributions,” *Eur. Phys. J. C* **14** (2000) 557 [arXiv:hep-ex/0002026].
86. P. Abreu *et al.* [DELPHI Collaboration], “Search for supersymmetric particles in scenarios with a gravitino LSP and stau NLSP,” *Eur. Phys. J. C* **16** (2000) 211 [arXiv:hep-ex/0103026].
87. P. Abreu *et al.* [DELPHI Collaboration], “Hadronization properties of b quarks compared to light quarks in $e^+e^- \rightarrow q$ anti-q from 183GeV to 200GeV,” *Phys. Lett. B* **479** (2000) 118 [Erratum-ibid. B **492** (2000) 398] [arXiv:hep-ex/0103022].
88. P. Abreu *et al.* [DELPHI Collaboration], “Inclusive Sigma- and Lambda(1520) production in hadronic Z decays,” *Phys. Lett. B* **475** (2000) 429 [arXiv:hep-ex/0103020].
89. P. Abreu *et al.* [DELPHI Collaboration], “Search for charginos in e^+e^- interactions at $\sqrt{s} = 189\text{GeV}$,” *Phys. Lett. B* **479** (2000) 129 [arXiv:hep-ex/0104027].
90. P. Abreu *et al.* [DELPHI Collaboration], “Identified Charged Particles in Quark and Gluon Jets,” *Eur. Phys. J. C* **17** (2000) 207 [arXiv:hep-ex/0106063].
91. P. Abreu *et al.* [DELPHI Collaboration], “Photon Events with Missing Energy at $\sqrt{s} = 183$ to 189 GeV,” *Eur. Phys. J. C* **17** (2000) 53 [arXiv:hep-ex/0103044].
92. P. Abreu *et al.* [DELPHI Collaboration], “Search for Heavy Stable and Long-Lived Particles in e^+e^- Collisions at $\sqrt{s}=189$ GeV,” *Phys. Lett. B* **478** (2000) 65 [arXiv:hep-ex/0103038].
93. P. Abreu *et al.* [DELPHI Collaboration], “Measurement of the anti-B $\rightarrow D^{(*)} \pi l$ anti-nu/l branching fraction,” *Phys. Lett. B* **475** (2000) 407 [arXiv:hep-ex/0105052].
94. P. Abreu *et al.* [DELPHI Collaboration], “A precise measurement of the tau polarisation at LEP-1,” *Eur. Phys. J. C* **14** (2000) 585.
95. P. Abreu *et al.* [DELPHI Collaboration], “Upper limit for the decay $B^- \rightarrow \tau^- \text{ anti-nu}/\tau$ and measurement of the $b \rightarrow \tau \text{ anti-nu}/\tau$ X branching ratio,” *Phys. Lett. B* **496** (2000) 43.
96. P. Abreu *et al.* [DELPHI Collaboration], “Two-dimensional analysis of the Bose-Einstein correlations in e^+e^- annihilation at the Z0 peak,” *Phys. Lett. B* **471** (2000) 460.

97. P. Abreu *et al.* [DELPHI Collaboration], “Measurement of the gluon fragmentation function and a comparison of the scaling violation in gluon and quark jets,” *Eur. Phys. J. C* **13** (2000) 573.
98. P. Abreu *et al.* [DELPHI Collaboration], “Lambda/b polarization in Z0 decays at LEP,” *Phys. Lett. B* **474** (2000) 205.
99. P. Abreu *et al.* [DELPHI Collaboration], “Measurement of the strange quark forward-backward asymmetry around the Z0 peak,” *Eur. Phys. J. C* **14** (2000) 613.
100. P. Abreu *et al.* [DELPHI Collaboration], “Search for chargino pair production in scenarios with gravitino LSP and stau NLSP at \sqrt{s} approx. 183GeV at LEP,” *Phys. Lett. B* **466** (1999) 61.
101. P. Abreu *et al.* [DELPHI Collaboration], “Search for charged Higgs bosons at LEP 2,” *Phys. Lett. B* **460** (1999) 484.
102. P. Abreu *et al.* [DELPHI Collaboration], “Measurement of the rate of b anti-b b anti-b events in hadronic Z decays and the extraction of the gluon splitting into b anti-b,” *Phys. Lett. B* **462** (1999) 425.
103. P. Abreu *et al.* [DELPHI Collaboration], “Measurement of the mass of the W boson using direct reconstruction at $\sqrt{s} = 183\text{GeV}$,” *Phys. Lett. B* **462** (1999) 410.
104. P. Abreu *et al.* [DELPHI collaboration], “Multiplicity fluctuations in one- and two-dimensional angular intervals compared with analytic QCD calculations,” *Phys. Lett. B* **457** (1999) 368 [arXiv:hep-ph/9905367].
105. P. Abreu *et al.* [DELPHI Collaboration], “Measurements of the Z partial decay width into $c\bar{c}$ and multiplicity of charm quarks per b decay,” *Eur. Phys. J. C* **12** (2000) 225.
106. P. Abreu *et al.* [DELPHI Collaboration], “Determination of $P(c \rightarrow D^{*+})$ and $BR(c \rightarrow l^+)$ at LEP1,” *Eur. Phys. J. C* **12** (2000) 209.
107. P. Abreu *et al.* [DELPHI Collaboration], “Search for supersymmetry with R-parity violating L L anti-E couplings at $\sqrt{s} = 183\text{GeV}$,” *Eur. Phys. J. C* **13** (2000) 591.
108. P. Abreu *et al.* [DELPHI Collaboration], “Search for the Higgs boson in events with isolated photons at LEP II,” *Phys. Lett. B* **458** (1999) 431.
109. P. Abreu *et al.* [DELPHI Collaboration], “A search for invisible Higgs bosons produced in e^+e^- interactions at LEP2 energies,” *Phys. Lett. B* **459** (1999) 367.

110. P. Abreu *et al.* [DELPHI Collaboration], “Measurements of the trilinear gauge boson couplings $W W V$ ($V = \gamma, Z$) in e^+e^- collisions at 183GeV,” *Phys. Lett. B* **459** (1999) 382.
111. P. Abreu *et al.* [DELPHI Collaboration], “Search for charginos nearly mass-degenerate with the lightest neutralino,” *Eur. Phys. J. C* **11** (1999) 1 [arXiv:hep-ex/9903071].
112. P. Abreu *et al.* [DELPHI Collaboration], “W pair production cross-section and W branching fractions in e^+e^- interactions at 183GeV,” *Phys. Lett. B* **456** (1999) 310.
113. P. Abreu *et al.* [DELPHI Collaboration], “Measurements of the leptonic branching fractions of the τ ,” *Eur. Phys. J. C* **10** (1999) 201.
114. P. Abreu *et al.* [DELPHI Collaboration], “Energy dependence of event shapes and of α_s at LEP2,” *Phys. Lett. B* **456** (1999) 322.
115. P. Abreu *et al.* [DELPHI Collaboration], “Measurement of the lifetime of b-baryons,” *Eur. Phys. J. C* **10** (1999) 185.
116. P. Abreu *et al.* [DELPHI Collaboration], “The scale dependence of the hadron multiplicity in quark and gluon jets and a precise determination of C_A/C_F ,” *Phys. Lett. B* **449** (1999) 383 [arXiv:hep-ex/9903073].
117. P. Abreu *et al.* [DELPHI Collaboration], “Measurement and interpretation of fermion-pair production at LEP energies from 130GeV to 172GeV,” *Eur. Phys. J. C* **11** (1999) 383.
118. P. Abreu *et al.* [DELPHI Collaboration], “Search for neutral Higgs bosons in e^+e^- collisions at $\sqrt{s} = 183\text{GeV}$,” *Eur. Phys. J. C* **10** (1999) 563.
119. P. Abreu *et al.* [DELPHI Collaboration], “Measurement of the forward backward asymmetry of c and b quarks at the Z pole using reconstructed D mesons,” *Eur. Phys. J. C* **10** (1999) 219 [arXiv:hep-ex/9903074].
120. P. Abreu *et al.* [DELPHI Collaboration], “Study of the four-jet anomaly observed at LEP centre-of-mass energies of 130GeV and 136GeV,” *Phys. Lett. B* **448** (1999) 311.
121. P. Abreu *et al.* [DELPHI Collaboration], “Measurement of inclusive ρ_0 , $f_0(980)$, $f_2(1270)$, $K^*(1430)$ and $f'_2(1525)$ production in Z0 decays,” *Phys. Lett. B* **449** (1999) 364.
122. P. Abreu *et al.* [DELPHI Collaboration], “Search for supersymmetry with R-parity violating decays via lambda couplings at $\sqrt{s} = 183\text{GeV}$,”

CERN-OPEN-99-449 *Prepared for 34th Rencontres de Moriond: Electroweak Interactions and Unified Theories, Les Arcs, France, 13-20 Mar 1999*

123. P. Abreu *et al.* [DELPHI Collaboration], “Search for leptoquarks and FCNC in e^+e^- annihilations at $\sqrt{s} = 183\text{GeV}$,” *Phys. Lett. B* **446** (1999) 62 [arXiv:hep-ex/9903072].
124. P. Abreu *et al.* [DELPHI Collaboration], “Search for charginos, neutralinos and gravitinos in e^+e^- interactions at $\sqrt{s} = 183\text{GeV}$,” *Phys. Lett. B* **446** (1999) 75.
125. P. Abreu *et al.* [DELPHI Collaboration], “A precise measurement of the partial decay width ratio $R(b)0 = \Gamma_{b\bar{b}}/\Gamma_{had}$,” *Eur. Phys. J. C* **10** (1999) 415.
126. P. Abreu *et al.* [DELPHI Collaboration], “Measurement of $A(\text{FB})(b \text{ anti-}b)$ in hadronic Z decays using a jet charge technique,” *Eur. Phys. J. C* **9** (1999) 367.
127. P. Abreu *et al.* [DELPHI Collaboration], “Search for composite and exotic fermions at LEP2,” *Eur. Phys. J. C* **8** (1999) 41 [arXiv:hep-ex/9811005].
128. P. Abreu *et al.* [DELPHI Collaboration], “Search for lightest neutralino and stau pair production in light gravitino scenarios with stau NLSP,” *Eur. Phys. J. C* **7** (1999) 595 [arXiv:hep-ex/9811006].
129. P. Abreu *et al.* [DELPHI Collaboration], “A search for heavy stable and longlived squarks and sleptons in e^+e^- collisions at energies from 130GeV to 183GeV ,” *Phys. Lett. B* **444** (1998) 491 [arXiv:hep-ex/9811007].
130. P. Abreu *et al.* [DELPHI Collaboration], “A search for η/c' production in photon photon fusion at LEP,” *Phys. Lett. B* **441** (1998) 479.
131. P. Abreu *et al.* [DELPHI Collaboration], “Two-particle angular correlations in e^+e^- interactions compared with QCD predictions,” *Phys. Lett. B* **440** (1998) 203.
132. P. Abreu *et al.* [DELPHI Collaboration], “Search for pair-produced neutralinos in events with photons and missing energy from e^+e^- collisions at $\sqrt{s} = 130\text{GeV}$ to 183GeV ,” *Eur. Phys. J. C* **6** (1999) 371.
133. P. Abreu *et al.* [DELPHI Collaboration], “Search for scalar fermions and long-lived scalar leptons at centre-of-mass energies of 130GeV to 172GeV ,” *Eur. Phys. J. C* **6** (1999) 385.