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## THE DELPHI EXPERIMENT AT LEP

### I. Photon-Photon interactions.

**1) Study of hard scattering processes in multihadron production from  $\gamma\gamma$  collisions at LEP.**

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**2) First evidence of hard scattering processes in single tagged  $\gamma\gamma$  collisions.**

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**3) A measurement of the Photon Structure Function  $F_2^g$  at an average  $Q^2$  of  $12 \text{ GeV}^2/c^4$ .**

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**4) A search for  $\eta'_c$  production in Photon-Photon fusion at LEP.**

The DELPHI collaboration. Physics Letters 441B (1998) 479.

**5) Study of Dimuon Production in Photon-Photon Collisions and Measurement of QED Photon Structure Functions at LEP.**

The DELPHI Collaboration. Eur. Phys. J. C19 (2001) 15.

**6) The  $\eta_c$  (2980) formation in two-photon collisions at LEP energies.**

The DELPHI Collaboration. Eur. Phys. J. C31 (2003) 481.

**7) Study of Inclusive  $J/\psi$  Production in Two-Photon Collisions at LEP II with the DELPHI Detector.**

The DELPHI collaboration. Physics Letters 565B (2003) 76.

**8) Study of Tau-pair Production in Photon-Photon Collisions at LEP and Limits on the Anomalous Electromagnetic Moments of the Tau lepton.**

The DELPHI Collaboration. Eur. Phys. J. C35 (2004) 159.

**9) Study of double-tagged  $\gamma\gamma$  events at LEP II.**

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**10) Search for  $\eta_b$  in Two-Photon Collisions at LEP II with the DELPHI Detector.**

The DELPHI collaboration. Physics Letters 634B (2006) 340.

### II. Bose-Einstein correlations.

**11) Invariant mass dependence of particle correlations in hadronic final states from the decay of the  $Z^0$ .**

The DELPHI collaboration. Z. Phys. C 63 (1994) 17.

**12) Interference of neutral kaons in the hadronic decay of the  $Z^0$ .**

The DELPHI collaboration. Physics Letters 323B (1994) 242.

**13) Kaon interference in the hadronic decays of the  $Z^0$ .**

The DELPHI collaboration. Physics Letters 379B (1996) 330.

**14) Two particle angular correlations in  $e^+e^-$  interactions compared with QCD predictions.**

The DELPHI collaboration. Physics Letters 440B (1998) 203.

**15) Two-dimensional analysis of the Bose-Einstein correlations in  $e^+e^-$  annihilation at the  $Z^0$  peak.**

The DELPHI collaboration. Physics Letters 471B (2000) 460.

**16) Bose-Einstein correlations in  $W^+W^-$  events at LEP2.**

The DELPHI collaboration. Eur. Phys. J. C44(2005) 161.

**III. Search for Higgs bosons.****17) Search for the standard model Higgs boson in  $Z^0$  decays.**

The DELPHI collaboration. Nuclear Physics B421 (1994) 3.

**18) Search for heavy neutral Higgs bosons in two doublet models.**

The DELPHI collaboration. Z. Phys. C 67 (1995) 69.

**19) Search for neutral and charged Higgs bosons in  $e^+e^-$  collisions at  $\sqrt{s} = 161$  GeV and 172 GeV.**

The DELPHI Collaboration. Eur. Phys. J. C2 (1998) 1.

**20) Search for charged Higgs bosons in  $e^+e^-$  collisions at  $\sqrt{s} = 172$  GeV .**

The DELPHI Collaboration. Physics Letters 420B (1998) 140.

**21) Search for neutral Higgs bosons in  $e^+e^-$  collisions at  $\sqrt{s} = 183$  GeV.**

The DELPHI Collaboration. Eur. Phys. J. C10 (1999) 563.

**22) Search for the Higgs boson in events with isolated photons at LEP-2.**

The DELPHI Collaboration. Physics Letters 458B (1999) 431.

**23) Search for invisible Higgs bosons produced in  $e^+e^-$  interactions at LEP-2 energies.**

The DELPHI Collaboration. Physics Letters 459B (1999) 367.

**24) Search for charged Higgs bosons at LEP-2.**

The DELPHI Collaboration. Physics Letters 460B (1999) 484.

**25) Searches for Neutral Higgs Bosons in  $e^+e^-$  Collisions around  $\sqrt{s} = 189$  GeV.**

The DELPHI collaboration. Eur. Phys. J. C17 (2000) 187, Addendum-ibid. C17 (2000) 549.

**26) Search for a fermiophobic Higgs at LEP2.**

The DELPHI collaboration. Physics Letters 507B (2001) 89.

**27) Search for the standard Model Higgs boson at LEP in the year 2000.**

The DELPHI collaboration. Physics Letters 499B (2001) 23.

**28) Search for charged Higgs bosons in  $e^+e^-$  annihilations at  $\sqrt{s} = 189\text{-}202$  GeV .**

The DELPHI Collaboration. Physics Letters 525B (2002) 17.

**29) Search for neutral Higgs bosons in  $e^+e^-$  annihilations at  $\sqrt{s} = 191.6$  to  $201.7$  GeV .**

The DELPHI collaboration. Eur. Phys. J. C23 (2002) 409.

**30) Search for doubly charged Higgs bosons at LEP2.**

The DELPHI Collaboration. Physics Letters 552B(2003)127.

**31) Search for the Standard Model Higgs Boson at LEP**

The DELPHI, ALEPH, OPAL and L3 collaborations. Physics Letters 565B(2003)61.

**32) Final results from DELPHI on the searches for SM and MSSM Neutral Higgs bosons.**

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**33) Search for invisibly decaying Higgs bosons with the DELPHI detector at LEP.**

The DELPHI collaboration. Eur. Phys. J. C32(2004) 475.

**34) Searches for Neutral Higgs Bosons in Extended Models.**

The DELPHI collaboration. Eur. Phys. J. C38(2004) 1.

**35) Search for Charged Higgs Bosons at LEP in General Two Higgs Doublet Models.**

The DELPHI collaboration. Eur. Phys. J. C34(2004) 399.

**36) Search for fermiphobic Higgs bosons in final states with photons at LEP 2.**

The DELPHI collaboration. Eur. Phys. J. C35 (2004) 313.

**37) Flavour Independent Searches for Hadronically Decaying Neutral Higgs Bosons.**

The DELPHI collaboration. Eur. Phys. J. C44(2005) 147.

**38) Search for Neutral MSSM Higgs Bosons at LEP.**

The DELPHI collaboration. Eur. Phys. J. C47(2006) 547.

**39) Higgs boson searches in CP-conserving and CP-violating MSSM scenarios with the DELPHI detector.**

The DELPHI collaboration. CERN preprint PH-EP-2007-029, accepted by Eur. Phys. J.

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**40) Search for the lightest chargino at  $\sqrt{s} = 130$  and  $136$  GeV in DELPHI .**

The DELPHI collaboration. Physics Letters 382B (1996) 323.

**41) Search for neutralinos, scalar leptons and scalar quarks in  $e^+e^-$  interactions at  $\sqrt{s} = 130$  GeV and 136 GeV.**

The DELPHI collaboration. Physics Letters 387B (1996) 651.

**42) Search for charginos, neutralinos and gravitinos at LEP .**

The DELPHI Collaboration. Eur. Phys. J. C1 (1998) 1.

**43) A search for heavy stable and longlived squarks and sleptons in  $e^+e^-$  collisions at energies from 130 GeV to 183 GeV.**

The DELPHI Collaboration. Physics Letters 444B (1998) 491.

**44) Search for pair produced neutralinos in events with photons and missing energy from  $e^+e^-$  collisions at  $\sqrt{s} = 130$  GeV to 172 GeV .**

The DELPHI Collaboration. Eur. Phys. J. C6 (1999) 371.

**45) Search for lightest neutralino and stau pair production in light gravitino scenario with stau NLSP.**

The DELPHI Collaboration. Eur. Phys. J. C7 (1999) 595.

**46) Search for charginos, neutralinos and gravitinos in  $e^+e^-$  interactions at  $\sqrt{s} = 183$  GeV.**

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**47) Search for charginos nearly mass-degenerate with the lightest neutralino .**

The DELPHI Collaboration. Eur. Phys. J. C11 (1999) 1.

**48) Search for chargino pair production in scenarios with gravitino LSP and stau NLSP at  $\sqrt{s} = 183$  GeV at LEP.**

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**49) Search for supersymmetry with R parity violating  $LL\bar{E}$  couplings at  $\sqrt{s} = 183$  GeV.**

The DELPHI Collaboration. Eur. Phys. J. C13 (2000) 591.

**50) Search for charginos in  $e^+e^-$  interactions at  $\sqrt{s} = 189$  GeV .**

The DELPHI collaboration. Physics Letters 479B (2000) 129.

**51) Search for supersymmetric particles in scenarios with gravitino LSP and stau NLSP.**

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**52) Update of the search for charginos nearly mass-degenerate with the lightest neutralino.**

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**53) Search for SUSY with R-parity violating  $LL\bar{E}$  couplings at  $\sqrt{s} = 189$  GeV.**

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**54) Search for the sgoldstino at  $\sqrt{s}$  from 189 to 202 GeV.**

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**55) Limits on the masses of supersymmetric particles at  $\sqrt{s} = 189$  GeV.**

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**56) Search for supersymmetric partners of top and bottom quarks at  $\sqrt{s} = 189$  GeV.**

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**57) Search for sleptons in  $e^+e^-$  annihilations at  $\sqrt{s} = 189$  GeV .**

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**58) Search for R-parity violation with a  $\overline{UDD}$  coupling at  $\sqrt{s} = 189$  GeV .**

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**59) Search for spontaneous R-parity violation at  $\sqrt{s} = 183$  GeV and 189 GeV .**

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**60) Search for neutralino pair production at  $\sqrt{s} = 189$  GeV .**

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**61) Update of the search for supersymmetric particles in scenarios with Gravitino LSP and Sleptons NLSP.**

The DELPHI collaboration. Physics Letters 503B (2001) 34.

**62) Search for super symmetric particles in light gravitino scenarios and sleptons NLSP.**

The DELPHI Collaboration. Eur.Phys.J.C27(2003)153.

**63) Search for an LSP gluino at LEP with the DELPHI detector.**

The DELPHI Collaboration. Eur.Phys.J.C26(2003)505.

**64) Search for resonant  $\tilde{\nu}$  production at  $\sqrt{s} = 183$  to 208 GeV.**

The DELPHI Collaboration. Eur.Phys.J.C28(2003)15.

**65) Searches for supersymmetric particles in  $e^+e^-$  collisions up to 208 GeV and interpretations of the results within the MSSM.**

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**66) Search for SUSY in the AMSB scenario with the DELPHI detector.**

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**67) Search for supersymmetric particles assuming R-parity non-conservation in  $e^+e^-$  collisions at  $\sqrt{s} = 192$  to 208 GeV.**

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### 68) Limits on the production of scalar leptoquarks from $Z^0$ decays at LEP.

The DELPHI collaboration. Physics Letters 316B (1993) 620.

### 69) Search for $Z^0$ decays to two leptons and a charged particle-antiparticle pair.

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### 70) Search for pair-produced heavy scalars in $Z^0$ decays.

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### 71) Search for Pair Production of Heavy Objects in 4-Jet Events at $\sqrt{s} = 130-136$ GeV.

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### 72) Search for excited leptons in $e^+e^-$ collisions at $\sqrt{s} = 161$ GeV .

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### 73) Search for Stable Heavy Charged Particles in $e^+e^-$ Collisions at $\sqrt{s} = 130-136, 161$ and $172$ GeV.

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### 74) Search for Neutral Heavy Leptons Produced in Z Decays.

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### 75) Search for scalar fermions and longlived scalar leptons at center-of-mass energies of 130 GeV to 172 GeV.

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### 76) Study of the four-jet anomaly observed at LEP center-of-mass energies of 130 GeV and 136 GeV.

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### 77) Search for composite and exotic fermions at LEP2 .

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### 78) Search for leptoquarks and FCNC in $e^+e^-$ annihilations at $\sqrt{s} = 183$ GeV .

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### 79) Search for Heavy Stable and Long-Lived Particles in $e^+e^-$ Collisions at $\sqrt{s} = 189$ GeV.

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### 80) Search for Technicolor with DELPHI.

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### 81) Search for Pentaquarks in the Hadronic Decays of the Z boson with the DELPHI Detector.

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**82) Search for a fourth generation b'-quark at LEP II at  $\sqrt{s} = 196-209$  GeV.**

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**83) Study of multi-muon bundles in cosmic ray showers detected with the DELPHI detector at LEP.**

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**85) Charged kaon production in tau decays at LEP.**

The DELPHI collaboration. Physics Letters 334B (1994) 435.

**86) A study of radiative muon-pair events at  $Z^0$  energies and limits on an additional  $Z'$  gauge boson.**

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**87) Measurements of the tau polarization in  $Z^0$  decays.**

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**88) A measurement of the tau leptonic branching fractions.**

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**89) Upper limits on the branching ratios  $\tau \rightarrow \mu \gamma$  and  $\tau \rightarrow e \gamma$ .**

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**90) A precise measurement of the tau lepton lifetime.**

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**91) Study of radiative leptonic events with hard photons and search for excited charged leptons at  $\sqrt{s} = 130-136$  GeV.**

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**93) Measurement of the transverse spin correlation in  $Z^0 \rightarrow \tau^+\tau^-$  decays.**

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**95) A study of the hadronic resonance structure in the decay  $\tau \rightarrow 3\pi\nu_\tau$ .**

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**96) Measurement and interpretation of fermion-pair production at LEP energies from 130 GeV to 172 GeV.**

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**99) A Study of the Lorentz Structure in  $\tau$  Decays.**

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**100) Cross Sections and Leptonic Forward-Backward Asymmetries from the  $Z^0$  Running of LEP.**

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**101) Measurement and interpretation of fermion-pair production at LEP energies of 183 GeV and 189 GeV.**

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**102) A Measurement of the Tau Topological Branching Ratios.**

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**103) A precise measurement of the tau lifetime.**

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**104) Measurement and Interpretation of Fermion-Pair Production at LEP energies above the  $Z^0$  Resonance.**

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**105) A Measurement of the Tau Hadronic Branching Ratios.**

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**106) A determination of the Centre-of-mass Energy at LEP2 using Radiative 2-fermion Events.**

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**107) Measurement of the Tau Lepton Polarisation at LEP2.**

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**VII. Bottom quark production in  $e^+e^-$  collisions.****108) Measurement of  $\Lambda_b$  production and lifetime in  $Z^0$  hadronic decays.**

The DELPHI collaboration. Physics Letters 311B (1993) 379.



**109) A measurement of the mean lifetimes of charged and neutral B-hadrons.**

The DELPHI collaboration. Physics Letters 312B (1993) 253.

**110) Production rate and decay lifetime measurements of  $B_s^0$  mesons at LEP using  $D_s$  and  $\phi$  mesons.**

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**111) Measurement of the  $B^0$ - $\bar{B}^0$  mixing using the average electric charge of hadron-jets in  $Z^0$ -decays.**

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**112) A measurement of the  $B_s^0$  meson mass.**

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**113) A precision measurement of the average lifetime of B hadrons.**

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**114) Measurement of  $B^0\bar{B}^0$  mixing parameter in DELPHI.**

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**115) Measurement of the  $\Gamma_{bb}/\Gamma_{had}$  branching ratio of the Z by double hemisphere tagging.**

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**116) Measurement of time dependant  $B_d^0\bar{B}_d^0$  mixing.**

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**117) Measurement of the forward-backward asymmetry of  $e^+e^- \rightarrow Z \rightarrow b\bar{b}$  using prompt leptons and a lifetime tag.**

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**118) Observation of orbitally excited B mesons.**

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**119) Production of charged particles,  $K_S^0$ ,  $K^+$ ,  $p$  and  $\Lambda$  in  $e^+e^- \rightarrow Z \rightarrow b\bar{b}$  events and in the decay of B hadrons.**

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**120) Measurement of  $\Gamma_{bb}/\Gamma_{had}$  using impact parameter measurements and lepton identification.**

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**121) Production of strange B-baryons decaying into  $\Xi^{+-}$ - $I^{+-}$  pairs at LEP.**

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**122)  $B^*$  production in Z decays.**

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**123) Lifetimes of charged and neutral B hadrons using event topology.**

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**124) A measurement of  $B^+$  and  $B^0$  lifetimes using  $\bar{D} I^+$  events.**

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**125) Lifetime and production rate of beauty baryons from Z decays.**

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**126) Search for exclusive charmless B meson decay with the DELPHI detector at LEP.**

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**127) Search for promptly produced heavy quarkonium states in hadronic Z decays.**

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**128) Measurement of the  $B_d^0$  oscillation frequency using kaons, leptons and jet charge.**

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**129) Updated precision measurement of the average lifetime of B hadrons.**

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**130) Determination of  $|V_{cb}|$  from the semileptonic decay  $B^0 \rightarrow D^{*-} I^+ \nu$ .**

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**131) Search for exclusive decays of the  $\Lambda_b$  baryon and measurement of its mass.**

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**132) Measurement of the partial decay width  $R_b^0 = \Gamma_{bb^-} / \Gamma_{had}$  of the Z with the DELPHI detector at LEP.**

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**133) Determination of the average lifetime of b-baryons.**

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**134) Mean lifetime of the  $B_s^0$  meson.**

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**135) Study of rare b decays with the DELPHI detector at LEP.**

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- 138) Measurement of the Multiplicity of Gluons Splitting to Bottom Quark Pairs in Hadronic  $Z^0$  Decays.**  
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- 141)  $m_b$  at  $M_Z$ .**  
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- 143) Measurement of the charged particle multiplicity of weakly decaying B hadrons.**  
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- 144) A precise measurement of the partial decay width ratio  $R_b^0 = \Gamma_{bb} / \Gamma_{had}$ .**  
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- 145) Measurement of  $A(FB)(B^0\bar{B}^0)$  in hadronic Z decays using a jet charge technique.**  
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- 146) Measurement of the forward-backward asymmetry of c and b quarks at the Z pole using reconstructed D mesons.**  
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- 147) Measurement of the lifetime of B-baryons.**  
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- 148) Measurement of the rate of  $b\bar{b}b\bar{b}$  events in hadronic Z decays and the extraction of the gluon splitting into  $b\bar{b}$ .**  
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- 149)  $\Lambda_b$  polarization in  $Z^0$  decays at LEP.**  
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- 150) Measurement of the  $\bar{B} \rightarrow D^{(*)} \pi | \bar{\nu}_l$  branching fraction.**  
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- 151) Determination of  $V_{ub} / V_{cb}$  with DELPHI at LEP.**  
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**152) Upper limit for the decay  $B^- \rightarrow \tau^- \bar{\nu}_\tau$  and measurement of the  $b \rightarrow \tau \bar{\nu}_\tau X$  branching ratio.**

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**155) Study of  $B_s^0 - \bar{B}_s^0$  oscillations and  $B_s^0$  lifetimes using hadronic decays of  $B_s^0$  mesons.**

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**156) Measurement of  $V_{cb}$  from the decay process  $\bar{B}^0 \rightarrow D^* + l + \bar{\nu}$ .**

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**157) Measurement of the semileptonic b branching fractions and average b mixing parameter in Z decays.**

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**158) Search for  $B_s^0 - \bar{B}_s^0$  oscillations and a measurement of  $B_d^0 - \bar{B}_d^0$  oscillations using events with an inclusively reconstructed vertex.**

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**160) A measurement of the branching fractions of the b-quark into charged and neutral b-hadrons.**

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**161) Measurement of the  $\Lambda_b$  decay form factor.**

The DELPHI collaboration. Physics Letters 585B (2004) 63.

**162) Measurement of the Forward-Backward Asymmetries of  $e^+e^- \rightarrow Z \rightarrow b\bar{b}$  and  $e^+e^- \rightarrow Z \rightarrow c\bar{c}$  using prompt leptons.**

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**167) Determination of  $A_{FB}^b$  at the Z pole using inclusive charge reconstruction and lifetime tagging.**

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