

1 Publications

1.1 Interactions $K_L^0 p$

1. A measurement of the $K_L^0 p \rightarrow K_S^0 p$ reaction between 4 and 14 GeV/c in the range $0.1 \leq |t| \leq 2 GeV^2$.
S. Cittolin et al., Nucl. Phys. **B142**, (1978) 410.
2. Measurement of the $K_L^0 p$ elastic cross section for $3 \leq p \leq 13 GeV/c$ and $0.1 \leq |t| \leq 1.3 GeV^2$.
S. Cittolin et al., Nucl. Phys. **B157**, (1979) 197.

1.2 Recherche de résonances baryoniques étroites

3. Search for narrow baryons in $\pi^- p$ elastic scattering at large angles.
P. Baillon et al., Phys. Lett. **94B**, (1980), 533.
4. Search for narrow baryons in $\pi^- p$ total cross section between 2 and 14 GeV .
E. Barrelet et al., Phys. Lett. **94B**, (1980), 541.

1.3 CLEO à Cornell

5. Decay of B mesons into charged and neutral kaons.
A. Brody et al., Phys. Rev. Lett. **48**, (1982), 1070.
6. Charged particle multiplicities in B -meson decay.
M. S. Alam et al., Phys. Rev. Lett. **49**, (1982), 357.
7. Inclusive charges D^* production in e^+e^- annihilations at $W = 10.4 GeV$.
C. Bebek et al., Phys. Rev. Lett. **49**, (1982), 610.
8. Measurement of the branching ratio of $\Upsilon(3S) \rightarrow \pi^+\pi^-\Upsilon(1S)$.
J.Green et al., Phys. Rev. Lett. **49**, (1982), 617.
9. Semileptonic decays of B mesons.
K. Chadwick et al., Phys. Rev. **D27**, 1983, 475.
10. Search for axion production in Υ decay.
M. S. Alam et al., Phys. Rev. **D27**, 1983, 1665.
11. Ruling out exotic models of b quark decay.
A. Chen et al., Phys. Lett. **122B**, (1983), 807.
12. Measurement of the leptonic branching ratios of the $\Upsilon(1S)$ and $\Upsilon(3S)$.
D. Andrews et al., Phys. Rev. Lett. **50**, (1983), 807.

13. Measurement of the branching fraction of the decay $\Upsilon(1S) \rightarrow \tau^+\tau^-$.
R. Giles et al., Phys. Rev. Lett. **50**, (1983), 877.
14. Observation of exclusive decay modes of b -flavored mesons.
S. Behrends et al., Phys. Rev. Lett. **50**, (1983), 881.
15. D^0 spectrum from B -meson decay.
J. Green et al., Phys. Rev. Lett. **51**, (1983), 347.
16. Evidence for the F meson at 1970 MeV.
A. Chen et al., Phys. Rev. Lett. **51**, (1983), 634.
17. Production of charmed mesons in e^+e^- annihilation at 10.5 GeV.
P. Avery et al., Phys. Rev. Lett. **51**, (1983), 1139.
18. Observation of baryons in B -meson decay.
M. S. Alam et al., Phys. Rev. Lett. **51**, (1983), 1143.
19. Cross section for electron positron annihilation into hadron final states in the upsilon energy region.
R. Giles et al., Phys. Rev. **D29**, (1984), 1285.
20. Observation of radiative decays of the $\Upsilon(2S)$.
P. Haas et al., Phys. Rev. Lett. **52**, (1984), 799.
21. Limit on the $b \rightarrow u$ coupling from semileptonic B decay.
A. Chen et al., Phys. Rev. Lett. **52**, (1984), 1084.
22. A search for the $\xi(2.2)$ in the Υ region.
S. Behrends et al., Phys. Lett. **137B**, (1984), 277.
23. Hyperon production in e^+e^- interactions in the upsilon region.
M. S. Alam et al., Phys. Rev. Lett. **53**, (1984), 24.
24. High statistics study of $\Upsilon(2S) \rightarrow \pi^+\pi^-\Upsilon(1S)$.
D. Besson et al., Phys. Rev. **D30**, (1984), 1433.
25. Upper limit on flavor changing neutral current decays of the b quark.
P. Avery et al., Phys. Rev. Lett. **53**, (1984), 1309.
26. Two-body decays of B mesons.
R. Giles et al., Phys. Rev. **D30**, (1984), 2279.

1.4 L3

27. Testing the standard model by measuring the τ helicity at the Z^0 .
J. Chauveau in Physics at LEP, rapport jaune CERN 86-01, édité par J. Ellis et R.D. Peccei, (1986), 177.

1.5 Désintégration des neutrinos

28. Search for Neutrino Decay.
G. Bernardi et al., Phys. Lett. **166B**, (1986), 479.
29. Anomalous electron production observed in the CERN PS neutrino beam.
G. Bernardi et al., Phys. Lett. **181B**, (1986), 173.
30. Further Limits on Heavy Neutrino Couplings.
G. Bernardi et al., Phys. Lett. **203B**, (1988), 332.

1.6 Oscillations des neutrinos

31. Search for Neutrino Oscillations.
P. Astier et al., Phys. Lett. **220B**, (1989), 646.
32. A Search for Neutrino Oscillations.
P. Astier et al., Nucl. Phys. **B335**, (1989), 517.

1.7 Projets d'usines à mésons B

33. A measurement of the Refractive Index of the Sodium Fluoride in the far Ultraviolet.
M. Hempstead et al., Nucl. Inst. Meth. **A306**, (1991), 207.

1.8 Détecteurs au silicium

35. Measurement of the spatial resolution of a double sided AC-coupled microstrip detector.
L. Hubbeling et al., Nucl. Inst. Meth. **A310**, (1991), 197.
36. Beam test results of an ion implanted capacitively coupled silicon strip detector processed on a 10mm silicon wafer.
I. Hietanen et al., Nucl. Inst. Meth. **A310**, (1991), 677.

1.9 DELPHI

37. Production of strange particles in the hadronic decays of the Z^0 .
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38. Electroweak parameters of the Z^0 resonance and the standard model.
The LEP collaborations, Phys. Lett. **276B**, (1992), 247.
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DELPHI collab., P. Abreu et al., Phys. Lett. **276B**, (1992), 254.

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DELPHI collab., P. Abreu et al., Phys. Lett. **277B**, (1992), 371.
42. Measurement of the Z^0 branching fraction to b quark pairs using the boosted sphericity product.
DELPHI collab., P. Abreu et al., Phys. Lett. **281B**, (1992), 383.
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45. Measurement of the partial width of the Z^0 into $b\bar{b}$ final states using their semileptonic decays.
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48. Multiplicity fluctuations in hadronic final states from the decay of the Z^0 .
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49. Classification of the hadronic decays of the Z^0 into b and c quark pairs using a neural network.
DELPHI collab., P. Abreu et al., Phys. Lett. **295B**, (1992), 383.
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N. Binglefors et al., Nucl. Inst. Meth. **A328**, (1993), 447.
52. Measurement of inclusive production of light meson resonances in hadronic decays of the Z^0 .
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56. Determination of α_S for b quarks at the Z^0 resonance.
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62. Search for Z^0 decays to two leptons and a charged particle-antiparticle pair.
DELPHI Collab., P. Abreu et al., Nucl. Phys. **B403**, (1993), 3.
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64. Limits on the production of scalar leptoquarks from Z^0 decays at LEP.
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65. Production of Λ and $\Lambda\bar{\Lambda}$ correlations in the hadronic decays of the Z^0 .
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DELPHI collab., P. Abreu et al., Phys.Lett. **B322**, (1994), 459-472.

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71. Measurements of the Lineshape of the Z^0 and Determination of Electroweak Parameters from its Hadronic and Leptonic Decays.
DELPHI collab., P. Abreu et al., Nucl. Phys. **B426**, (1994),244.
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77. MEASUREMENT OF THE B^0 - ANTI- B^0 MIXING PARAMETER IN DELPHI.
By DELPHI Collaboration (P. Abreu, et al.). CERN-PPE-94-67, May 1994. 14pp.
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By DELPHI Collaboration (P. Abreu, et al.), Z.Phys.**C65**, (1995), 555.
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1.10 Détecteur *BABAR* à SLAC

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1.11 Enseignement

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