

# LIST OF PUBLICATIONS

of Dimitri T. BOURILKOV

## Summary

1. Publications in Refereed Journals
  - Miscellanea: 6
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## 1 Publications in Refereed Journals

### 1.1 Miscellanea

- [1] D.Bourilkov, S.Petrov and H.Vankov “Low-Energy Threshold Calculations of Extensive Air Showers with Primary Energy  $10^{13} - 10^{15}$  eV”  
Journal of Physics G, **17**(1991)1925.
- [2] D.Bourilkov, V.Brigljevic, F.Filthaut, R.Forty, F.Harris, R.Hawkings, G. von Holtey, E.Migliore, O.Scheider, E.Valazza, J.Wenninger “Beam Spot Position Measurement at the LEP Collider”  
Nuclear Instruments and Methods A, **394**(1997)103. /Preprint CERN SL-96-74 (EA)/
- [3] D. Bourilkov, “Analysis of Bhabha Scattering at LEP2 and Limits on Low Scale Gravity Models”  
J. High Energy Phys. **08** (1999)006; hep-ph/9907380.
- [4] D. Bourilkov, “Search for TeV Strings and New Phenomena in Bhabha Scattering at CERN LEP2”  
Physical Review D. **62** (2000) 076005; hep-ph/0002172.
- [5] D. Bourilkov, “Hint for Axial-vector Contact Interactions in the Data on  $e^+e^- \rightarrow e^+e^-(\gamma)$  at Centre-of-mass Energies 192-208 GeV”  
Physical Review D. **64** (2001) 071701; hep-ph/0104165.
- [6] O. Adriani et al., “The L3+C Detector, a Unique Tool-set to Study Cosmic Rays”,  
Nuclear Instruments and Methods A, **488**(2002)209.

### 1.2 With the BIS-2/EXCHARM Collaboration (alias D.Burilkov)

- [1] A.Aleev et al. “Evidence for Charmed Baryons  $\Lambda_c^+$ , Produced in the Neutron Beam of the Serpukhov Accelerator”  
Yadernaya Fizika (Soviet Journal of Nuclear Physics), **35**(1982)1175.
- [2] A.Aleev et al. “Observation of a Narrow Baryon Resonance, Decaying into  $\Sigma^-(1385)$  and  $K^+$ ”  
Yadernaya Fizika, **36**(1982)1420.
- [3] A.Aleev et al. “Polarization of  $\Lambda^0$  Produced by Neutrons with an Average Energy 40 GeV on Carbon Nuclei”  
Yadernaya Fizika, **37**(1983)1479.

- [4] A.Aleev et al. “Hyperon Production in nC-interactions in a Neutron Beam with 40 GeV/c Momentum”  
Yadernaya Fizika, **44**(1986)661.
- [5] D.Burilkov et al. “Inclusive Production of Charmed Baryons  $\Lambda_c^+$  in nCH-interactions near 55 GeV”  
Bulgarian Journal of Physics, **10**(1983)49.
- [6] D.Burilkov et al. “Momentum Distributions of  $\Lambda_c^+$  Produced in the Neutron Beam of the Serpukhov Accelerator”  
Bulgarian Journal of Physics, **10**(1983)185.
- [7] A.Aleev et al. “Investigation of Charmed Baryons  $\Lambda_c^+$  Produced in Neutron-Carbon Interactions at 58 GeV”  
Yadernaya Fizika, **37**(1983)1474.
- [8] A.Aleev et al. “The  $\Lambda_c^+$  Production by 40-70 GeV Neutrons on Carbon”  
Zeitschrift für Physik C, **23**(1984)333.
- [9] A.Aleev et al. “Observation and Study of a Narrow State in a  $\Sigma^-(1385)K^+$  System”  
Zeitschrift für Physik C, **25**(1984)205.
- [10] A.Aleev et al. “Polarization of Charmed Baryons  $\Lambda_c^+$  Produced in nC-interactions”  
Yadernaya Fizika, **43**(1986)619.
- [11] A.Aleev et al. “Observation of  $\bar{D}$  Mesons in nC-interactions at 40-70 GeV/c”  
Czechoslovak Journal of Physics B, **36**(1986)1303.
- [12] A.Aleev et al. “A-Dependence of the Production Cross Section of the Narrow Baryon Resonance  $N_\varphi$ ”  
Yadernaya Fizika, **44**(1986)1010.
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Yadernaya Fizika, **46**(1987)1127.
- [14] A.Aleev et al. “A-Dependence of the Polarization of  $\Lambda^0$  Produced Inclusively in Neutron-Nucleus Interactions”  
Zeitschrift für Physik C, **36**(1987)27.
- [15] A.Aleev et al. “Production of  $\bar{D}$  Mesons in Neutron-Carbon Interactions at 40-70 GeV”  
Zeitschrift für Physik C, **37**(1988)243.
- [16] D.Burilkov et al. “A-Dependence of the Inclusive  $\Lambda^0$  Production in Neutron-Nucleus Interactions”  
Bulgarian Journal of Physics, **15**(1988)3.
- [17] M.Vecko et al. “Production of the Charmed Baryon  $\Lambda_c^+$  in Neutron-Proton Interactions”  
Czechoslovak Journal of Physics B, **39**(1989)297.
- [18] A.Aleev et al. “Search for Narrow Baryonia with Negative and Positive Strangeness”  
Zeitschrift für Physik C, **47**(1990)533.
- [19] A.Aleev et al. “Inclusive Production of  $\Phi$  Mesons in Neutron-Proton Interactions at 30-70 GeV”  
Czechoslovak Journal of Physics B, **40**(1990)1216.
- [20] M.Smizanska et al. “Diffractive Dissociation Reaction  $np \rightarrow \Lambda^0 K^0$  for Incident Neutron Momenta between 30 GeV/c and 70 GeV/c”  
Czechoslovak Journal of Physics B, **40**(1990)1293.
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Instrumentation and Experimental Techn., **34**(1991)37.
- [22] A.Aleev et al. “A-Dependence of Inclusive  $\Phi$  Meson Production in Neutron-Nucleus Interactions at 30 GeV to 70 GeV”  
Czechoslovak Journal of Physics B, **42**(1992)11.
- [23] A.Aleev et al. “Associated Production of  $\Phi$  Mesons and Strange Particles and Double  $\Phi$  Meson Production”  
Czechoslovak Journal of Physics B, **42**(1992)159.
- [24] A.Aleev et al. “Narrow Baryonia with Open and Hidden Strangeness”  
Soviet Journal of Nuclear Physics, **55**(1992)833.
- [25] A.Aleev et al. “Measurement of Relative Branching Ratios of Charm Particles  $\Lambda_c^+$  and  $D^-$ ”  
Yadernaya Fizika, **57**(1994)1443.

### 1.3 With the L3 Collaboration

- [1] B.Adeva et al. “A Determination of the Properties of the Neutral Intermediate Vector Boson  $Z^0$ ”  
Physics Letters B, **231**(1989)509.

- [2] B.Adeva et al. “Mass Limits for Scalar Muons, Scalar Electrons, and Winos from  $e^+e^-$  Collisions Near  $\sqrt{s} = 91 \text{ GeV}$ ”  
Physics Letters B, **233**(1989)530.
- [3] B.Adeva et al. “Measurement of  $g_A$  and  $g_V$ , the Neutral Current Coupling Constant to Leptons”  
Physics Letters B, **236**(1990)109.
- [4] B.Adeva et al. “Measurement of  $Z^0$  Decays to Hadrons, and a Precise Determination of the Number of Neutrino Species”  
Physics Letters B, **237**(1990)136.
- [5] B.Adeva et al. “A Measurement of the  $Z^0$  Leptonic Partial Widths and the Forward-Backward Asymmetry”  
Physics Letters B, **238**(1990)122.
- [6] B.Adeva et al. “Measurement of  $Z^0 \rightarrow b\bar{b}$  Decay Properties”  
Physics Letters B, **241**(1990)416.
- [7] B.Adeva et al. “Mass Limits for Excited Electrons and Muons from Z Decay”  
Physics Letters B, **247**(1990)177.
- [8] B.Adeva et al. “A Determination of Electroweak Parameters from  $Z^0 \rightarrow \mu^+\mu^-(\gamma)$ ”  
Physics Letters B, **247**(1990)473.
- [9] B.Adeva et al. “A Precision Measurement of the Number of Neutrino Species”  
Physics Letters B, **249**(1990)341.
- [10] B.Adeva et al. “Search for Neutral Higgs Boson in  $Z^0$  Decay ”  
Physics Letters B, **248**(1990)203.
- [11] B.Adeva et al. “Determination of  $\alpha_s$  from Jet Multiplicities Measured on the  $Z^0$  Resonance”  
Physics Letters B, **248**(1990)464.
- [12] B.Adeva et al. “A Test of QCD based on 4-Jet Events from  $Z^0$  Decays”  
Physics Letters B, **248**(1990)227.
- [13] B.Adeva et al. “Test of QED in  $e^+e^- \rightarrow \gamma\gamma$  at LEP”  
Physics Letters B, **250**(1990)199.
- [14] B.Adeva et al. “Search for Excited Taus from Z Decays”  
Physics Letters B, **250**(1990)205.
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- [16] B.Adeva et al. “A Search for Heavy Charged and Neutral Leptons from  $Z^0$  Decays”  
Physics Letters B, **251**(1990)321.
- [17] B.Adeva et al. “A Determination of Electroweak Parameters from  $Z^0$  Decays into Charged Leptons”  
Physics Letters B, **250**(1990)183.
- [18] B.Adeva et al. “Search for the Charged Higgs Boson in  $Z^0$  Decay”  
Physics Letters B, **252**(1990)511.
- [19] B.Adeva et al. “Search for a Low Mass Neutral Higgs Boson in  $Z^0$  Decay”  
Physics Letters B, **252**(1990)518.
- [20] B.Adeva et al. “A Measurement of  $B^0 - \bar{B}^0$  Mixing in  $Z^0$  Decays”  
Physics Letters B, **252**(1990)703.
- [21] B.Adeva et al. “Search for Excited Neutrinos from  $Z^0$  Decay”  
Physics Letters B, **252**(1990)525.
- [22] B.Adeva et al. “A Measurement of the  $Z^0 \rightarrow b\bar{b}$  Forward-Backward Asymmetry ”  
Physics Letters B, **252**(1990)713.
- [23] B.Adeva et al. “Determination of  $\alpha_s$  from Energy-Energy Correlations Measured on the Z Resonance”  
Physics Letters B, **257**(1991)469.
- [24] B.Adeva et al. “Search for the Neutral Higgs Boson with a Mass above 15 GeV ”  
Physics Letters B, **257**(1991)450.
- [25] B.Adeva et al. “Measurement of the Inclusive Production of Neutral Pions and Charged Particles on the  $Z^0$  Resonance”  
Physics Letters B, **259**(1991)199.
- [26] B.Adeva et al. “Search for Leptoquarks in  $Z^0$  Decays”  
Physics Letters B, **261**(1991)169.
- [27] B.Adeva et al. “Measurement of  $Z \rightarrow b\bar{b}$  Decays and the Semileptonic Branching Ratio  $\text{Br}(b \rightarrow l + X)$ ”  
Physics Letters B, **261**(1991)177.

- [28] B.Adeva et al. “Measurement of Electroweak Parameters from Hadronic and Leptonic Decays of the  $Z^0$ ”  
Zeitschrift für Physik C, **51**(1991)179.
- [29] B.Adeva et al. “Search for Narrow High-Mass Resonances in Radiative Decays of the  $Z^0$ ”  
Physics Letters B, **262**(1991)155.
- [30] B.Adeva et al. “A Test of QCD based on 3-Jet Events from  $Z^0$  Decays”  
Physics Letters B, **263**(1991)551.
- [31] B.Adeva et al. “Decay Properties of Tau Leptons Measured at the  $Z^0$  Resonance ”  
Physics Letters B, **265**(1991)451.
- [32] B.Adeva et al. “Measurement of the Lifetime of B-Hadrons and a Determination of  $|V_{cb}|$ ”  
Physics Letters B, **270**(1991)111.
- [33] B.Adeva et al. “Measurement of the Strong Coupling Constant  $\alpha_s$  for Bottom Quarks at the  $Z^0$  Resonance”  
Physics Letters B, **271**(1991)461.
- [34] B.Adeva et al. “Search for Lepton Flavour Violation in  $Z^0$  Decays”  
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- [35] B.Adeva et al. “A Direct Determination of the Number of  $\nu$  Light Neutrino Families from  $e^+e^- \rightarrow \nu\bar{\nu}\gamma$  at LEP”  
Physics Letters B, **275**(1992)209.
- [36] The LEP Collaborations: ALEPH, DELPHI, L3 and OPAL “Electroweak Parameters of the  $Z^0$  Resonance and the Standard Model”  
Physics Letters B, **276**(1992)247.
- [37] B.Adeva et al. “Search for the Neutral Higgs Boson at LEP”  
Physics Letters B, **283**(1992)454.
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Zeitschrift für Physik C, **55**(1992)39.
- [39] B.Adeva et al. “Determination of  $\alpha_s$  from Hadronic Event Shapes Measured on the  $Z^0$  Resonance”  
Physics Letters B, **284**(1992)471.
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Physics Letters B, **286**(1992)403.
- [41] B.Adeva et al. “An Improved Measurement of  $B^0 - \bar{B}^0$  Mixing in  $Z^0$  Decays”  
Physics Letters B, **288**(1992)395.
- [42] O.Adriani et al. “Test of Quantum Electrodynamics in the Reaction  $e^+e^- \rightarrow \gamma\gamma(\gamma)$ ”  
Physics Letters B, **288**(1992)404.
- [43] O.Adriani et al. “Inclusive J Production in  $Z^0$  Decays”  
Physics Letters B, **288**(1992)412.
- [44] O.Adriani et al. “Measurement of the  $e^+e^- \rightarrow b\bar{b}$  and  $e^+e^- \rightarrow c\bar{c}$  Forward-Backward Asymmetries at the  $Z^0$  Resonance”  
Physics Letters B, **292**(1992)454.
- [45] O.Adriani et al. “Determination of the Number of Light Neutrino Species”  
Physics Letters B, **292**(1992)463.
- [46] O.Adriani et al. “Isolated Hard Photon Emission in Hadronic  $Z^0$  Decays”  
Physics Letters B, **292**(1992)472.
- [47] O.Adriani et al. “A Measurement of  $\tau$  Polarization in  $Z^0$  Decays”  
Physics Letters B, **294**(1992)466.
- [48] O.Adriani et al. “Searches for Non-Minimal Higgs Bosons in  $Z^0$  Decays”  
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- [49] O.Adriani et al. “High Mass Photon Pairs in  $l^+l^-\gamma\gamma$  Events at LEP”  
Physics Letters B, **295**(1992)337.
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- [51] O.Adriani et al. “Search for Isosinglet Neutral Heavy Leptons in  $Z^0$  Decays”  
Physics Letters B, **295**(1992)371.
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- [53] O.Adriani et al. “Determination of Quark Electroweak Couplings from Direct Photon Production in Hadronic Z Decays”  
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- [54] O.Adriani et al. “A Search for the Neutral Higgs Boson at LEP”  
Physics Letters B, **303**(1993)391.
- [55] O.Adriani et al. “Results from the L3 Experiment at LEP”  
Physics Reports, **236**(1993)1.
- [56] O.Adriani et al. “Search for Narrow Vector Resonances in the Z Mass Range”  
Physics Letters B, **313**(1993)326.
- [57] O.Adriani et al. “Search for a Z' at the Z Resonance”  
Physics Letters B, **306**(1993)187.
- [58] The LEP Collaborations, “Measurement of the Mass of the Z Boson and the Energy Calibration of LEP”  
Physics Letters B, **307**(1993)187.
- [59] O.Adriani et al. “Measurement of  $\Gamma_{bb}/\Gamma_{had}$  for Hadronic Decays of the Z”  
Physics Letters B, **307**(1993)237.
- [60] O.Adriani et al. “Determination of the Effective Electroweak Mixing Angle from Z Decays”  
Physics Letters B, **309**(1993)451.
- [61] O.Adriani et al. “Inclusive Search for the Charmless Radiative Decay of the b-quark ( $b \rightarrow s\gamma$ )”  
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- [62] O.Adriani et al. “An S Matrix Analysis of the Z Resonance”  
Physics Letters B, **315**(1993)494.
- [63] O.Adriani et al. “Search for Lepton Flavor Violation in Z decays”  
Physics Letters B, **316**(1993)427.
- [64] O.Adriani et al. “ $\chi_c$  Production in Hadronic Z Decays”  
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- [65] O.Adriani et al. “Measurement of the Average Lifetime of b Hadrons”  
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Physics Letters B, **318**(1993)575.
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- [69] M.Acciarri et al. “Measurement of Cross Sections and Leptonic Forward-Backward Asymmetries at the Z Pole and Determination of Electroweak Parameters”  
Zeitschrift für Physik C, **62**(1994)551.
- [70] M.Acciarri et al. “Measurement of Inclusive Production of Neutral Hadrons from Z Decays”  
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- [71] M.Acciarri et al. “Measurement of the Inclusive  $b \rightarrow \tau\nu X$  Branching Ratio”  
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- [72] M.Acciarri et al. “Measurement of the  $B^0 - \bar{B}^0$  Mixing Parameter and the  $Z \rightarrow b\bar{b}$  Forward-Backward Asymmetry”  
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- [73] M.Acciarri et al. “ $B^*$  Production in Z Decays at LEP”  
Physics Letters B, **345**(1995)589.
- [74] M.Acciarri et al. “A Measurement of  $\tau$  Polarization at LEP”  
Physics Letters B, **341**(1994)245.
- [75] M.Acciarri et al. “Energy and Particle Flow in Three-Jet and Radiative Two-Jet Events from Hadronic Z Decays”  
Physics Letters B, **345**(1995)74.
- [76] M.Acciarri et al. “Measurement of Exclusive Branching Fractions of Hadronic One-Prong Tau Decays”  
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- [80] M.Acciarri et al. “Measurement of the Weak Charged Current Structure in Semileptonic b-Hadron Decays at the Z Peak”  
Physics Letters B, **351**(1995)375.
- [81] M.Acciarri et al. “Search for Neutralinos in Z Decays”  
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- [82] M.Acciarri et al. “Tests of QED at LEP Energies using  $e^+e^- \rightarrow \gamma\gamma(\gamma)$  and  $e^+e^- \rightarrow e^+e^-\gamma\gamma$ ”  
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- [87] M.Acciarri et al. “Search for the Decays  $B_d^0 \rightarrow \gamma\gamma$  and  $B_s^0 \rightarrow \gamma\gamma$ ”  
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Physics Letters B, **370**(1996)211.
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Physics Letters B, **374**(1996)331.
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Nuclear Instruments and Methods A, **378**(1996)101.
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- [96] M.Acciarri et al. “Search for Unstable Sequential Neutral and Charged Heavy Leptons in  $e^+e^-$  Annihilation at  $\sqrt{s} = 130$  and  $136 \text{ GeV}$ ”  
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Physics Letters B, **383**(1996)487.

- [102] M.Acciarri et al. “Search For Neutral Higgs Boson Production Through the Process  $e^+e^- \rightarrow Z^*H^0$ ”  
Physics Letters B, **385**(1996)454.
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Physics Letters B, **389**(1996)187.
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