

# Publication list



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## Top-cited

### Renowned papers (500+)

1. **Precision electroweak measurements on the Z resonance**, ALEPH and DELPHI and L3 and OPAL and SLD Collaborations and LEP Electroweak Working Group and SLD Electroweak Group and SLD Heavy Flavour Group (S. Schael et al., (NCSR Demokritos Athens: **I.Bozovic**)), Sep 2005, 302 pp., Phys.Rept. 427 (2006) 257-454, DOI: 10.1016/j.physrep.2005.12.006, **cited 1000+**

### Famous papers (250+)

1. **International Linear Collider Reference Design Report Volume 2: Physics at the ILC**, ILC Collaboration (Vinca Belgrade: **I.Bozovic Jelisavcic**, J. Mamuzic, M. Mudrinic, M. Pandurovic, I. Smiljanic), Sep 2007, SLAC-R-975, FERMILAB-DESIGN-2007-04, FERMILAB-PUB-07-795-E, e-Print: arXiv:0709.1893 [hep-ph], **cited 250+**

### Very well-known papers (100+)

1. **The International Large Detector: Letter of Intent**, Linear Collider ILD Concept Group - (Toshinori Abe (Tokyo U.) et al., Vinca Belgrade: **I. Bozovic Jelisavcic**, S. Jokic, T. Jovin, J. Mamuzic, M. Mudrinic, M. Pandurovic, I. Smiljanic), Feb 2010, 189 pp., FERMILAB-LOI-2010-03, FERMILAB-PUB-09-682-E, DESY-09-87, KEK-REPORT-2009-6, DOI: 10.2172/975166, e-Print: arXiv:1006.3396 [hep-ex], **cited 100+**

2. **TESLA: The superconducting electron positron linear collider with an integrated X-ray laser laboratory. Technical design report. Pt. 4: A detector for TESLA**, G. Alexander (Tel Aviv U.) et al., (Vinca Belgrade: **I. Bozovic Jelisavcic**), Mar 2001, 175 pp., DESY-01-011, DESY-01-011D, DESY-TESLA-2001-23, DESY-TESLA-FEL-2001-05, ECFA-2001-209, **cited 100+**
3. **Measurement of the Charm and Beauty Structure Functions using the H1 Vertex Detector at HERA**, H1 Collaboration (F.D. Aaron (Bucharest, IFIN-HH & Bucharest U.) et al., (Vinca Belgrade: **I. Bozovic Jelisavcic**, M. Mudrinic, M. Pandurovic, I. Smiljanic), 2009, 40 pp., Published in Eur.Phys.J. C65 (2010) 89-109, DESY-09-096, DOI: 10.1140/epjc/s10052-009-1190-0, e-Print: arXiv:0907.2643, **cited 100+**

### Well-known papers (50+)

1. **ILC Reference Design Report Volume 4 – Detectors**, ILC Collaboration (Ties Behnke (ed.) (DESY) et al., (Vinca Belgrade: **I.Bozovic Jelisavcic**, J. Mamuzic, M. Mudrinic, M. Pandurovic, I. Smiljanic)), Dec 2007, FERMILAB-DESIGN-2007-02, FERMILAB-PUB-07-793-E, e-Print: arXiv:0712.2356 [physics.ins-det], **cited 50+**
2. **Time-dependent angular analysis of the decay  $B_0 \rightarrow J/\psi \phi$  and extraction of  $\Delta\Gamma$ s and the CP-violating weak phase  $\phi_s$  by ATLAS**, ATLAS Collaboration (Gorges Aad (Freiburg U.) et al., (Vinca Belgrade: **I. Bozovic Jelisavcic**, T. Agatonovic Jovin), Aug 2012, 18 pp., Published in JHEP 1212 (2012) 072, CERN-PH-EP-2012-182, DOI: 10.1007/JHEP12(2012)072, e-Print: arXiv:1208.0572 [hep-ex], **cited 50+**
3. **Physics at the CLIC e+e- Linear Collider -- Input to the Snowmass process 2013**, CLIC Detector and Physics Study Collaboration (H. Abramowicz (Tel Aviv U.) et al., (Vinca Belgrade: **I. Bozovic Jelisavcic**, S. Lukic, M. Pandurovic, G. Milutinovic-Dumbelovic), Jul 19, 2013, 31 pp., Conference: C13-07-29.2 Proceedings, e-Print: arXiv:1307.5288 [hep-ex], **cited 50+**
4. **Updated baseline for a staged Compact Linear Collider**, CLIC and CLICdp Collaborations (M J Boland (U. Melbourne (main)) et al., (Vinca Belgrade: **I. Bozovic-Jelisavcic**, G. Kacarevic, S. Lukic, G. Milutinovic-Dumbelovic, M. Pandurovic), Aug 12, 2016, 57 pp., CERN-2016-004, DOI: 10.5170/CERN-2016-004, e-Print: arXiv:1608.07537 [physics.acc-ph], **cited 50+**
5. **Flavor tagged time-dependent angular analysis of the  $B_s \rightarrow J/\psi \phi$  decay and extraction of  $\Delta\Gamma$ s and the weak phase  $\phi_s$  in ATLAS**, ATLAS Collaboration (Gorges Aad (Marseille, CPPM) et al., Vinca Belgrade: **I. Bozovic Jelisavcic**, T.

Agatonovic Jovin)., Jul 7, 2014, 26 pp., Published in Phys.Rev. D90 (2014) no.5, 052007, CERN-PH-EP-2014-043, DOI: 10.1103/PhysRevD.90.052007, e-Print: arXiv:1407.1796 [hep-ex], cited 50+

6. **Cross-sections and leptonic forward backward asymmetries from the Z0 running of LEP**, DELPHI Collaboration (P. Abreu et al., (NCSR Demokritos Athens: **I.Bozovic**). Feb 2000, 64 pp., Published in Eur.Phys.J. C16 (2000) 371-405, CERN-EP-2000-037, DOI: 10.1007/s100520000392, cited 50+

### Known papers

1. **Measurement of shower development and its Molière radius with a four-plane LumiCal test set-up**, FCAL Collaboration (H. Abramowicz (Tel Aviv U., ..et al. (Vinca Belgrade: **I. Bozovic Jelisavcic**, S. Lukic, M. Pandurovic, I. Smiljanic)), May 10, 2017, 28 pp., Published in Eur.Phys.J. C78 (2018) no.2, 135, DOI: 10.1140/epjc/s10052-018-5611-9, e-Print: arXiv:1705.03885 [physics.ins-det]
2. **Higgs physics at the CLIC electron–positron linear collider**, H. Abramowicz (Tel Aviv U.) et al., (Vinca Belgrade: **I. Bozovic-Jelisavcic**, G. Kacarevic, S. Lukic, G. Milutinovic-Dumbelovic, M. Pandurovic), Aug 26, 2016, 40 pp., Published in Eur.Phys.J. C77 (2017) no.7, 475, CLICDP-PUB-2016-001, DOI: 10.1140/epjc/s10052-017-4968-5, e-Print: arXiv:1608.07538 [hep-ex]
3. **Physics potential for the measurement of  $\sigma(H\nu\nu^-)\times BR(H\rightarrow\mu+\mu^-)$  at the 1.4 TeV CLIC collider**, G. Milutinović-Dumbelović, **I. Božović-Jelisavčić** (Belgrade U.), C. Greife (Bonn U. & CERN), G. Kačarević, S. Lukić, M. Pandurović (Belgrade U.), P. Roloff (CERN), I. Smiljanić (Belgrade U.). Jul 16, 2015, 10 pp., Published in Eur.Phys.J. C75 (2015) no.11, 515, DOI: 10.1140/epjc/s10052-015-3742-9, e-Print: arXiv:1507.04531 [hep-ex]
4. **Performance of fully instrumented detector planes of the forward calorimeter of a Linear Collider detector**, FCAL Collaboration (H. Abramowicz (Tel Aviv U. et al.,(Vinca Belgrade: **I. Bozovic-Jelisavcic**, S. Lukic, M. Pandurovic, I. Smiljanic)), Nov 17, 2014, 22 pp., Published in JINST 10 (2015) no.05, P05009, DOI: 10.1088/1748-0221/10/05/P05009, e-Print: arXiv:1411.4431 [physics.ins-det]
5. **Luminosity measurement at ILC**, **I. Božović Jelisavčić**, S. Lukić, G. Milutinović Dumbelović, M. Pandurović, I. Smiljanić (VINCA Inst. Nucl. Sci., Belgrade). Apr 15, 2013, Published in JINST 8 (2013) P08012, DOI: 10.1088/1748-0221/8/08/P08012, e-Print: arXiv:1304.4082 [physics.acc-ph]

6. **Correction of beam-beam effects in luminosity measurement in the forward region at CLIC**, Strahinja Lukic, **I. Božović-Jelisavčić**, M. Pandurović, I. Smiljanić (VINCA Inst. Nucl. Sci., Belgrade), Jan 2013, 16 pp., Published in JINST 8 (2013) P05008, LCD-NOTE-2012-008, DOI: 10.1088/1748-0221/8/05/P05008, e-Print: arXiv:1301.1449 [physics.acc-ph]
7. **Forward Instrumentation for ILC Detectors**, H. Abramowicz (Tel Aviv U.) et al., (Vinca Belgrade: **I. Bozovic Jelisavcic**, S. Lukic, M. Pandurovic, I. Smiljanic), Sep 2010, 30 pp., Published in JINST 5 (2010) P12002, DESY-10-142, DOI: 10.1088/1748-0221/5/12/P12002, e-Print: arXiv:1009.2433 [physics.ins-det].
8. **Measurement of the semileptonic b branching fractions and average b mixing parameter in Z decays**, DELPHI Collaboration (P. Abreu et al., (NCSR Demokritos Athens: **I.Bozovic**)), Mar 2001, 40 pp., Published in Eur.Phys.J. C20 (2001) 455-478, CERN-EP-2000-157, DOI: 10.1007/s100520100690, e-Print: hep-ex/0105080, **cited 23, PhD**.
9. **Measurement of the forward backward asymmetry of c and b quarks at the Z pole using reconstructed D mesons**, DELPHI Collaboration (P. Abreu et al., (NCSR Demokritos Athens: **I.Bozovic**)), Jan 1999, 31 pp., Published in Eur.Phys.J. C10 (1999) 219-237, CERN-EP-99-007, CERN-EP-99-07, CERN-EP-99-7, DOI: 10.1007/s100520050584, e-Print: hep-ex/9903074, **cited 30, MSci**.
10. **Measurement of A(FB)(b anti-b) in hadronic Z decays using a jet charge technique**, DELPHI Collaboration (P. Abreu et al. (NCSR Demokritos Athens: **I.Bozovic**)), Nov 1998, 26 pp., Published in Eur.Phys.J. C9 (1999) 367-381, CERN-EP-98-189, DOI: 10.1007/s100520050030

### Invited talks

1. **Lomonosov University**, 17th Lomonosov Conference on Elementary Particle Physics, 20-26 Aug 2015, Moscow, Russia.
2. **Lomonosov University**, 18th Lomonosov Conference on Elementary Particle Physics, 24-30 Aug 2017, Moscow, Russia.
3. **Fermilab**, Americas Workshop on Linear Colliders 2014, 12-16 May 2014, Batavia, USA.
4. **Brookhaven National Laboratory (BNL)**, 8 May 2014, Upton, NY, USA.

## Conferences

1. **CLIC Physics Overview, Ivanka Božović-Jelisavčić on behalf of the CLICdp collaboration**, 2017, 8 pp., DOI: 10.1142/9789813224568\_0027, p.174-181, Conference: C15-08-20 - 17th Lomonosov Conference on Elementary Particle Physics, 20-26 Aug 2015, Moscow, Russia.
2. **Potential and challenges of the physics measurements with very forward detectors at linear colliders, Ivanka Božović Jelisavčić on behalf of the FCAL Collaboration**, 2016, 6 pp., Published in Nucl.Part.Phys.Proc. 273-275 (2016) 1084-1089, DOI: 10.1016/j.nuclphysbps.2015.09.170, Conference: C14-07-02 - 37th International Conference on High Energy Physics (ICHEP 2014), 2-9 Jul 2014. Valencia, Spain
3. **Measurement of the Higgs decay to electroweak bosons at low and intermediate CLIC energies, Ivanka Božović-Jelisavčić on behalf of the CLICdp collaboration**, Gordana Milutinović-Dumbelović, Mila Pandurović, Strahinja Lukić, Mar 29, 2016, 9 pp., e-Print: arXiv:1603.08681 [hep-ex], CLICdp-Conf-2016-004, Conference: C15-11-02.1 - International Workshop on Future Linear Colliders (LCWS2015), 02-06 Nov 2015. Whistler, B.C., Canada.
4. **Measurement of the branching ratios for the standard model Higgs decays into muon pairs and into Z boson pairs at a 1.4 TeV CLIC**, CLICdp Collaboration (Gordana Milutinović-Dumbelović, Ivanka Božović-Jelisavčić, Christian Grefe, Goran Kačarević, Strahinja Lukić, Mila Pandurović, Philipp Roloff, Ivan Smiljanic), 2016, Published in AIP Conf.Proc.1722 (2016) 070006, CLICdp-Conf-2015-008, DOI: 10.1063/1.4944160, Conference: C15-08-24.3 - 9th International Physics Conference of the Balkan Physical Union (BPU9), 24-27 Aug 2015, Istanbul, Turkey.
5. **Precision luminosity measurement at ILC, I. Bozovic-Jelisavcic on behalf of the FCAL Collaboration**, S. Lukic, M. Pandurovic, I. Smiljanic, Mar 28, 2014, 6 pp., e-Print: arXiv:1403.7348 [physics.acc-ph], Conference: C13-11-11.1 - International Workshop on Future Linear Colliders (LCWS13), 11-15 Nov 2013, Tokyo, Japan.
6. **Measurement of  $\sigma(\text{Hvev}^-) \times \text{BR}(\text{H} \rightarrow \text{ZZ}^*)$  and Higgs production in ZZ fusion at a 1.4 TeV CLIC collider**, G. Milutinović-Dumbelović, I. Božović-Jelisavčić (VINCA Inst. Nucl. Sci., Belgrade), A. Robson (Glasgow U.), P. Roloff (CERN). May 12, 2015, 10 pp., e-Print: arXiv:1505.02929 [hep-ex], Conference: C14-10-06.2 - International Workshop on Future Linear Colliders (LCWS14), 06-10 Oct 2014. Belgrade, Serbia.

7. **Physics and detector studies with the very forward calorimeters at a future linear collider**, Ivanka Bozovic-Jelisavcic on behalf of the FCAL Collaboration, 2013, 6 pp., Published in PoS ICHEP2012 (2013) 540, Conference: C12-07-04
8. **Workshop on Forward Calorimetry at Future Linear Collider (FCAL 2011) Belgrade**, Serbia, September 13-15, 2011, Ivanka Božović-Jelisavčić (editor), 2011, 72 pp., Conference: C11-09-13.1- Workshop on Forward Calorimetry at Future Linear Collider (FCAL 2011), 13-15 Sep 2011. Belgrade, Serbia.
9. **Design and R&D of very forward calorimeters for detectors at future e+e-collider**, Ivanka Bozovic-Jelisavcic on behalf of the FCAL Collaboration, Jan 2012, 4 pp., Published in PoS EPS-HEP2011 (2011) 210, e-Print: arXiv:1201.6495 [physics.ins-det], Conference: C11-07-21 - 2011 Europhysics Conference on High Energy Physics (EPS-HEP 2011), 21-27 Jul 2011. Grenoble, France.
10. **Forward region studies for ILC**, Ivanka Bozovic-Jelisavcic, Mila Pandurovic, Ivan Smiljanic, Tatjana Jovin (Belgrade U.), Iftach Sadeh (Tel Aviv U.), 2010, 6 pp., Published in AIP Conf.Proc. 1203 (2010) 49-54, DOI: 10.1063/1.3322495
11. **Heavy flavor identification using multivariate analysis at H1**, Mila Pandurovic, Ivanka Bozovic-Jelisavcic, Mihajlo Mudrinic (Belgrade U.). 2010. 6 pp., Published in AIP Conf.Proc. 1203 (2010) 91-96, DOI: 10.1063/1.3322583
12. **Simulation of Physics Background for Luminosity Measurement at ILC**, Ivanka Bozovic-Jelisavcic (VINCA Inst. Nucl. Sci., Belgrade), W. Lohmann, Hannelies Kluge (DESY), Mar 2005, Published in eConf C050318 (2005) 1024, LCWS-2005-1024, Conference: C05-03-18 - International Linear Collider Workshop (LCWS 2005), 18-22 Mar 2005. Stanford, California.
13. **Proceedings, 4th ECFA / DESY Workshop on Physics and Detectors for a 90-GeV to 800-GeV Linear e+ e- Collider**: Amsterdam, Netherlands, April 1-4, 2003, K. Ackermann, I. Bozovic Jelisavcic, et al.. Mar 2004, 140 pp., DESY-PROC-2004-01, DESY-04-123, DESY-04-123G, Conference: C03-04-01
14. **Measurement of trilinear gauge couplings at a gamma gamma and e gamma collider**, I. Bozovic-Jelisavcic, Klaus Monig, J. Sekaric (DESY, Zeuthen). Oct 2002, 7 pp., p.383-388, e-Print: hep-ph/0210308, Presented at Conference: C02-08-26.5 - International Workshop on Linear Colliders (LCWS 2002), 26-30 Aug 2002, Jeju Island, Korea.
15. **Performance study of the proposed TESLA detector using a realistic track reconstruction package**, T. Behnke, Grahame A. Blair, I. Bozovic, M. Elsing, K. Harder, R. Hawkings, Klaus Monig, D. Wicke. Jan 2001. 30 pp., LC-DET-2001-029, p.1758-1787, Conference: C98-06-28.1 - 2nd Workshop of the 2nd Joint

ECFA / DESY Study on Physics and Detectors for a Linear Electron Positron Collider, 28-30 Jun 1998, Lund, Sweden.

16. **Measurement of the semileptonic  $b$  branching ratios in  $Z$  decays, DELPHI Collaboration** (P. Antilogus, I. Bozovic et al.). Jun 1999. 36 pp., CERN-OPEN-99-433, Prepared for Conference: C99-07-15 - 1999 International Europhysics Conference on High-Energy Physics (EPS-HEP 1999), 15-21 Jul 1999, Tampere, Finland.
17. **Cross-sections and leptonic forward backward asymmetries from the  $Z^0$  running of LEP**, DELPHI Collaboration (P. Abreu, I. Bozovic et al.). Jun 1998, 64 pp., CERN-OPEN-2000-031, Prepared for Conference: C98-07-23 - 29th International Conference on High-Energy Physics (ICHEP 98), 23-29 Jul 1998, Vancouver, British Columbia, Canada.