

Curriculum Vitae

PERSONAL INFORMATION

Name and surname **BLAŽENKA MELIĆ**
Academic title Dr.sc. (Dr.rer.nat.)
Year and institution of PhD obtained 1994, Universität Karlsruhe, Germany
Address Bijenička c. 54
Phone +385-1-4561033
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Personal web page <http://www.irb.hr/Ljudi/Blazenka-Melic>
Citizenship Croatian
Date and place of birth 15.09.1967, Karlovac, Croatia

RESEARCH FIELDS

Main research field **Theoretical elementary particle physics**

quark physics (lifetimes, decays, CP violation), perturbative and nonperturbative quantum chromodynamics, physics on the noncommutative space, top-quark physics, physics beyond Standard Model

WORK EXPERIENCE

Date (from – until) 7/2012 -
Institution *Rudjer Boskovic Institute*
Position **Senior Scientist (equiv. to Full Professor at University)**
Work field *Theoretical particle physics*

Date (from – until) 6/2006 –7/2012
Institution *Rudjer Boskovic Institute*
Position Senior Research Associate (equiv. to Associate Professor at University)
Work field *Theoretical particle physics*

Date (from – until) 12/2002 –6/2006
Institution *Rudjer Boskovic Institute*
Position Research Associate (equiv. to Assistant Professor at University)
Work field *Theoretical particle physics*

Date (from – until) 12/1994 –12/2002
Institution *Rudjer Boskovic Institute*
Position Senior Research Assistant
Work field *Theoretical particle physics*

Date (from – until) 4/1991 –12/1994
Institution *Rudjer Boskovic Institute*
Position Research Assistant
Work field *Theoretical particle physics*

EDUCATION

Date 4.11.1994
Place *Karlsruhe, Germany*
Institution *Universität Karlsruhe, Institut für theoretische Teilchenphysik*
Title of qualification awarded Dr.rer. nat. (PhD)

Date 12/1992-12/1994
Place *Karlsruhe, Germany*
Institution *Universität Karlsruhe, Institut für theoretische Teilchenphysik*
Title of qualification awarded PhD study

Date 22.1. 1991
Place *Zagreb, Croatia*
Institution *University of Zagreb*
Title of qualification awarded Dipl. Ing. Phys., Mag. Phys.

Date 4/1991-11/1992
Place *Zagreb, Croatia*
Institution *University of Zagreb*
Title of qualification awarded PhD study

TRAINING AND VISITS TO FOREIGN RESEARCH AND EDUCATION INSTITUTIONS

Year 10/2012 – 4/2013
Place *Riverside, USA*
Institution *University of California Riverside*
Subject and skills covered *Theoretical particle physics (Fulbright fellow)*

Year 11-12/2011
Place *Ljubljana, Slovenia*
Institution *Jožef Stefan Institute*
Subject and skills covered *Theoretical particle physics*

Year 11-12/2008
Place *Haifa, Israel*
Institution *Technion*
Subject and skills covered *Theoretical particle physics*

Year 11/2002 – 5/2003
Place *Karlsruhe, Germany*
Institution *Universität Karlsruhe, Institut für theoretische Teilchenphysik*
Subject and skills covered *Theoretical particle physics*

Year 5/2001- 10/2002
Place *Mainz, Germany and Würzburg, Germany*
Institution *Universität Mainz, Institut für Physik and Universität Wuerzburg, Institut für Theoretische Physik und Astrophysik*
Subject and skills covered *Theoretical particle physics (Alexander von Humboldt fellow)*

Year 12/1992 – 11/1994
Place *Karlsruhe, Germany*
Institution *Universität Karlsruhe, Institut für theoretische Teilchenphysik*
Subject and skills covered *Theoretical particle physics*

LANGUAGES

MOTHER TONGUE **Croatian**

ENGLISH

speaking/writing/Reading excellent (C2)/excellent(C2)/excellent(C2)

OTHER FOREIGN LANGUAGES

GERMAN

speaking/writing/reading excellent (C2)/excellent(C2)/excellent(C2)

SPANISH

speaking/writing/reading basic (A1)/good(A2)/good(A2)

ITALIAN

speaking/writing/reading basic (A1)/good(A2)/good(A2)

RESEARCH AND OTHER PROJECTS

2005-2010 principal investigator on the research project "QCD sum rules for exclusive decays of heavy hadrons", institutional partnership (RBI and University of Siegen), promoted by the Alexander von Humboldt foundation; together with Prof.dr. Th. Mannel

2009-2010 principal investigator on the bilateral croatian-french project "Final state interactions in nonleptonic D- and B-decays"

2004-2006 investigator on the bilateral croatian-austrian project "Hard exclusive photo- and electroproduction of heavy quarkonium"

2003-2005 investigator on DFG project (436 KRO 113/6/0-1) "Higher-order QCD corrections in exclusive processes - mesons and baryons"

from 2006 investigator on the research project "Fundamental interactions in elementary particle physics and cosmology", Croatian Ministry of Science, Education and Sport, 098-0982930-2864

TEACHING

from 2006 initiating and teaching the postgraduate course "Effective field theories and physics of heavy quarks" at University of Zagreb

2012/2013 postgraduate course "Advanced quantum mechanics and quantum field theory" at University of California Riverside, USA

2005/2006 graduate course "Elementary particle physics" at University of Zagreb

AWARDS AND RECOGNITIONS

2001 Alexander von Humboldt fellow

2012 Fulbright fellow

ORGANIZATIONAL SKILLS AND COMPETENCES

2010 member of the organizing committee of the 3rd International Conference on Nuclear and Particle Physics with CEBAF at Jefferson Lab, NAPP 2010, Dubrovnik, Oct. 3-8 2010

2009 co-chair of the international workshop "Progress and Challenges in Particle Physics", Primosten, Sept. 29 - Oct. 3 2009

2006 member of the organizing committee of the international physics conference "2006 LHC days in Split", Split, Croatia, Sept. 2-7 2006

MEMBERSHIP IN SCIENCE ORGANIZATIONS AND BODIES

member of the Croatian Physical Society

member of the Croatian Humboldt Club

COMMISSIONS, COMMITTEES, BOARDS AND WORK GROUPS

2007 - 2009 member of the administrative board of the Croatian Humboldt Club

OTHER RESEARCH ACTIVITIES

2012 – **member of the Editorial Board of The Scientific World Journal** as part of the journal's High Energy Physics subject area

2005–2010 - **associate editor** of the Croatian physical journal "Fizika B"

frequently **refereeing** (more than 80 refereed papers) for the following journals:

"European Physical Journal A" (from 2012-)

"Physical Review Letters" (from 2005-)

"Physical Review D" (from 2004-)

"European Physical Journal C" (from 2004-)

"Journal of Physics G: Nuclear and Particle Physics" (from 2001-)

citations according to the SLAC INSPIRES/WOS database, Sept. 2013
(CC = papers in the Current Content journals)

Articles in CC journals

- 14 papers in **Phys. Rev. D**, IF = 4.691, Q2
- 7 papers in **Eur. Phys. J. C**, IF = 5.247, Q1
- 5 papers in **Phys. Lett.B**, IF = 4.569, Q1
- 2 papers in **JHEP**, IF = 5.618, Q1
- 2 papers in **J.Phys.B**, IF = 2.031, Q1
- 1 paper in **Phys. Lett.A**, IF = 1.766, Q2

CITESUMMARY (WoS database, Sept. 2013):

- total number of the published papers: **37**
- total number of citations: **>= 620**
- average citations per paper: **17**
- h-index: **17**

CITESUMMARY (SLAC INSPIRE database, Sept.2013):

- total number of the published papers: **35** (32 CC)
- total numbers of the proceedings papers: **24** (7 CC - refereed proceedings)
- total number of citations: **>= 870**
- average citations per paper: **24**
- h-index: **20**

TALKS:

- invited plenary talks at international conferences: **5**
- invited talks at international conferences: **13**
- other talks at international conferences: **6**
- talks at the foreign institutions: **14**

TOP 10 PAPERS:

1. B. Melić, B. Nižić and K. Passek: Complete next-to-leading order perturbative QCD prediction for the pion form factor , Phys. Rev. D 60 (1999) 074004 (77/59 citations,IF=4.7,Q2).
2. G. Duplančić, A. Khodjamirian, Th. Mannel, B. Melić and N. Offen: Light-cone sum rules for B -> pi form factors revisited, JHEP 0804 (2008) 014 (72/35 citations,IF=5.6,Q1).
3. B. Melić, K. Passek-Kumerički, J. Trampetić, P. Schupp and M.Wohlgenannt, The Standard model on non-commutative space-time: electroweak currents and Higgs sector, Eur. Phys. J. C 42 (2005) 483-497 (68/47 citations,IF=5.2,Q1).
4. B. Melić, K. Passek-Kumerički, J. Trampetić, P. Schupp and M.Wohlgenannt: The Standard model on non-commutative space-time: strong interactions included, Eur. Phys. J. C 42 (2005) 499-504 (56/47 citations, IF=5.2,Q1).
5. B. Melić, B. Nižić and K. Passek: BLM scale setting for the pion transition form factor, Phys. Rev. D 65 (2002) 053020 (49/35 citations,IF=4.7,Q2).

6. A. Khodjamirian, Th. Mannel and B. Melić: QCD Light-Cone Sum Rule Estimate of Charming Penguin Contributions in $B \rightarrow \pi \pi$, Phys. Lett. B. 571 (2003) 75-84, Phys.Lett.B 572 (2003) 171-180 (published twice in journal) (46/8 citations, IF=4.6, Q1).
7. H.-n. Li and B. Melić: Determination of heavy meson wave functions from B decays, Eur. Phys. J. C 11 (1999) 695-702 (39/32 citations, IF=5.2, Q1).
8. G. Duplanić and B. Melić: B, Bs \rightarrow K form factors: An update of light-cone sum rule results, Phys. Rev. D 78 (2008) 054015 (35/30 citations, IF=4.7, Q2).
9. B. Melić: LCSR analysis of exclusive two body B decay into charmonium, Phys. Lett. B 591 (2004) 91 (20/18 citations, IF=4.6, Q1).
10. S. Fajfer, J.F. Kamenik and B. Melić: Discerning New Physics in Top-Antitop Production using Top Spin Observables at Hadron Colliders, JHEP 1208 (2012) 114 (21/13 citations, IF=5.6, Q1).

PUBLICATION LIST

A1: Articles in CC journals

1. S. Bhattacharya, B. Melić and J. Wudka: Pionic Dark Matter, e-Print: arXiv:1307.2647, submitted to JHEP (2013).
2. E. Ma and B. Melić: Updated S_3 model of quarks, Phys. Lett. B 725 (2013) 402 (1/0 citation).
3. S. Fajfer, J.F. Kamenik and B. Melić: Discerning New Physics in Top-Antitop Production using Top Spin Observables at Hadron Colliders, JHEP 1208 (2012) 114 (21/13 citations).
4. S. Groote, J.G. Koerner, B. Melić and S. Prelovšek: Survey of top a quark polarization at a polarized linear e^+e^- collider, Phys.Rev. D 83 (2011) 054018 (4/3 citations).
5. G. Eilam, B. Melić and J. Trampetić: CP violation and the 4th generation, Phys. Rev. D 80 (2009)116003 (25/21 citations).
6. G. Duplanić and B. Melić: B, Bs \rightarrow K form factors: An update of light-cone sum rule results, Phys. Rev. D 78 (2008) 054015 (35/30 citations).
7. G. Duplanić, A. Khodjamirian, Th. Mannel, B. Melić and N. Offen: Light-cone sum rules for $B \rightarrow \pi$ form factors revisited, JHEP 0804 (2008) 014 (72/35 citations).
8. A. Khodjamirian, Th. Mannel, M. Melcher and B. Melić: Annihilation effects in $B \rightarrow \pi \pi$ from QCD light-cone sum rules, Phys. Rev. D 72 (2005) 094012 (26/18 citations).
9. B. Melić, K. Passek-Kumerički and J. Trampetić: $K \rightarrow \pi \gamma$ decays and space-time noncommutativity, Phys. Rev. D 72 (2005) 057502 (47/37 citations).
10. B. Melić, K. Passek-Kumerički and J. Trampetić: Quarkonia decays into two photons induced by the space-time non-commutativity, Phys. Rev.D 72 (2005) 054004 (41/30 citations).
11. B. Melić, K. Passek-Kumerički, J. Trampetić, P. Schupp and M.Wohlgenannt: The Standard model on non-commutative space-time: strong interactions included, Eur. Phys. J. C 42 (2005) 499-504 (56/47 citations).
12. B. Melić, K. Passek-Kumerički, J. Trampetić, P. Schupp and M.Wohlgenannt, The Standard model on non-commutative space-time: electroweak currents and Higgs sector, Eur. Phys. J. C 42 (2005) 483-497 (68/47 citations).
13. B. Melić: LCSR analysis of exclusive two body B decay into charmonium, Phys. Lett. B 591 (2004) 91 (20/18 citations).
14. A. Babić, B. Guberina, B. Melić and H. Štefančić: Cabibbo-suppressed decays of the Ω_c -feedback to the Ξ^+c lifetime, Phys. Rev. D 70 (2004) 117501 (4/3 citations).
15. B. Melić, B. Nižić and K. Passek: A note on the factorization scale independence of the PQCD prediction for exclusive processes, Eur. Phys. J. C 36 (2004) 453-458 (8/2 citations).
16. A. Khodjamirian, Th. Mannel and B. Melić: QCD Light-Cone Sum Rule Estimate of Charming Penguin Contributions in $B \rightarrow \pi \pi$, Phys. Lett. B. 571 (2003) 75-84, Phys.Lett.B 572 (2003) 171-180 (published twice in journal) (46/8 citations).
17. B. Melić: Nonfactorizable contributions to $B \rightarrow J/\psi K$, Phys. Rev. D 68 (2003) 034004 (21/18 citations).

18. B. Melić, D. Mueller and K. Passek-Kumerički: Next-to-next-to-leading prediction for the photon-to-pion transition form factor , *Phys. Rev. D* 68 (2003) 014013 (50/44 citations).
19. B. Melić, B. Nižić and K. Passek: BLM scale setting for the pion transition form factor , *Phys. Rev. D* 65 (2002) 053020 (49/35 citations).
20. J. G. Koerner, B. Melić and Z. Merebashvili: Analyticity, crossing and the absorptive parts of the one-loop contributions to the quark-quark-gluon gauge boson four-point function, *Phys. Rev. D* 62 (2000) 96011 (3/2 citations).
21. J. G. Koerner and B. Melić: Exclusive-inclusive ratio of semileptonic Λ_b -decays, *Phys. Rev. D* 62 (2000) 74008 (7/6 citations).
22. B. Guberina, B. Melić and H. Štefančić: Lifetime-difference of heavy hadrons, *Phys. Lett. B* 484 (2000) 43-50 (15/10 citations).
23. B. Guberina, B. Melić and H. Štefančić: Inclusive Decays and Lifetimes of Doubly Charmed Baryons, *Eur. Phys. J. C* 9 (1999) 213-219; Erratum, *ibidem*, 13 (2000) 551-551 (32/17 citations).
24. B. Guberina, B. Melić and H. Štefančić: Enhancement of preasymptotic effects in inclusive beauty decays, *Phys. Lett. B* 469 (1999) 253-258 (22/10 citations).
25. H.-n. Li and B. Melić: Determination of heavy meson wave functions from B decays, *Eur. Phys. J. C* 11 (1999) 695-702 (39/32 citations).
26. B. Melić: Perturbative approach to the penguin-induced $B \rightarrow \pi \Phi$ decay, *Phys. Rev. D* 59 (1999) 074005 (23/0 citations).
27. D. Klabučar, K. Kumerički, B. Melić and I. Picek: On the instanton-induced portion of the nucleon strangeness, *Eur. Phys. J. C* 9 (1999) 589-599 (3/2 citations).
28. B. Melić, B. Nižić and K. Passek: Complete next-to-leading order perturbative QCD prediction for the pion form factor , *Phys. Rev. D* 60 (1999) 074004 (77/59 citations).
29. B. Guberina and B. Melić: Inclusive charmed baryon decays and lifetimes, *Eur. Phys. J. C* 2 (1998) 697-703 (37/22 citations).
30. B. Melić and S. Meljanac: Permutation invariant statistics, duality and simple interpolations, *Phys. Lett. A* 226 (1997) 22-30 (3/5 citations).
31. B. Melić: Hydrogenic atoms with spinless nucleus in a magnetic field, *J. Phys. B* 27 (1994) 3849-3862 (1/0 citation).
32. B. Melić: Zeeman splitting in neutral hydrogenic atoms with spinless nucleus, *J. Phys. B* 27 (1994) 993-1003 (0/4 citations).

A2: Articles in non-CC journals

33. B. Melić, B. Nižić and K. Passek: On the complete next-to-leading order PQCD prediction for the pion form factor , *Fizika B* 8 (1999) 327-334 (12 citations).
34. D. Klabučar, K. Kumerički, B. Melić, and I. Picek: Nucleon strangeness as the response to a strangeness-sensitive probe in a class of hadrons models, *Fizika B* 8 (1999) 505-534 (2 citations).
35. A.T. Goritschnig, B. Melić, K. Passek-Kumerički and W. Schweiger: Hard Exclusive Photoproduction of Φ and J/Ψ Mesons, *Prog. Part. Nucl.Phys.* 61 (2008) 173-174.

B1: Articles in CC journals - refereed proceedings

1. J. G. Koerner and B. Melić: Exclusive and inclusive semileptonic Λ_b -decays, *Nucl. Phys. Proc. Suppl.* 93 (2000) 13-17.
2. D. Klabučar, K. Kumerički, B. Melić, and I. Picek: Proton strangeness induced by instantons, *Proc. of International workshop Symmetry and spin*, *Czech. J. Phys.* 50 (2000) S1 187-193.
3. B. Melić, B. Nižić and K. Passek: BLM scale for the pion transition form factor , *Lect. Notes Phys.* 616 (2003) 114-122.
4. B. Melić: Exclusive nonleptonic B decays from QCD light-cone sum rules, *Lect. Notes Phys.* 647 (2004) 287-301.
5. B. Melić: Estimate of the charming penguin contributions to $B \rightarrow \pi \pi$, *Eur. Phys. J. C* 33 (2004) S250-S252.
6. G. Duplančić, A. Khodjamirian, Th. Mannel, B. Melić and N. Offen: $|V_{ub}|$ determination using $B \rightarrow \pi$ form factor from light-cone sum rule, *J.Phys. Conf. Ser.* 110 (2008) 052026.

7. B. Melić: Charmless two-body B-meson decays in QCD, Nucl. Phys. Proc. Suppl. 209 (2011) 129-134.

B2: Articles in other proceedings

8. B. Melić: On the perturbative approach to the penguin induced $B \rightarrow \pi \Phi$ decay, Proc. of The International Europhysics Conference, HEP99, Tampere, Finland, July 15-21, 1999, pp. 540-541.
9. D. Klabučar, K. Kumerički, B. Melić and I. Picek: On the instanton induced nucleon strangeness, Proc. of the XIth Rencontres de Blois, Blois, France, June 27 – July 3, 1999, pp. 279-281.
10. B. Melić, B. Nižić and K. Passek: On the PQCD prediction for the pion form factor, Proc. of the 6th INT / Jlab Workshop on Exclusive and Semiexclusive Processes at High Momentum Transfer, Newport News, Virginia, USA, May 20-22, 1999: Newport News 1999, Exclusive and semiexclusive processes at high momentum transfer, World Scientific, 2000, pp.279-286.
11. B. Guberina, B. Melić and H. Štefančić: Inclusive decays and lifetimes of doubly-charmed baryons, Proc. of XVII Autumn School, QCD: Perturbative or Nonperturbative?, Lisbon, Portugal, September 29 - October 4, 1999, pp. 363-368.
12. B. Guberina, B. Melić and H. Štefančić: Preasymptotic effects in Λ_b -decays, Proc. of The 3rd International Conference on B Physics and CP Violation, Taipei, Taiwan, December 3-7, 1999, pp. 156-159.
13. B. Guberina, B. Melić and H. Štefančić, Lifetime pattern of heavy hadrons, Proc. of The 30rd International Conference on High Energy Physics, ICHEP 2000, Osaka, Japan, July 27 - August 2, 2000, pp. 888-890.
14. B. Melić: Heavy Flavour Hadrons - inclusive decays and lifetimes, Proc. of the Int. Conf. "LHC days in Split", Split, Croatia, October 4-7, 2000, pp. 644-658.
15. B. Melić, B. Nižić and K. Passek: Scale dependence and NLO predictions for the pion form factor, Proc. of the Workshop on the Pion Form Factor, NIKHEF, Amsterdam, Holland, January 18, 2000, pp. 88-100.
16. B. Melić: The lifetimes of heavy hadrons - A theoretical appraisal, Proc. of the 4th International Conference on B Physics and CP Violation, BCP4, Ise-Shima, Japan, February 19-23, 2001, pp. 299-302.
17. B. Melić and R. Rueckl: Nonfactorizable effects in $B \rightarrow J/\psi K$, Proc. of the Workshop on B physics and CP violation, Frontier Science 2002, October 6-11, 2002, INFN, Frascati, Italy, in "Frascati 2002, Frontier science 2002", pp. 235-238.
18. A. Khodjamirian, Th. Mannel and B. Melić: Charming penguins in $B \rightarrow \pi \pi$ from QCD light-cone sum rules, Proc. of the Workshop on the CKM Unitarity Triangle, IPPP Durham, England, April 5-9, 2003, eConf C0304052:WG409, 2003.
19. B. Melić: Some aspects of (charmless) B decays from QCD light-cone sum rules, Proc. of the Int. Conference on Flavor Physics and CP Violation, FPCP 2003, Ecole Polytechnique, Paris, France, June 3-6, 2003, eConf C030603:JEU03, 2003, pp. 245-249.
20. A. Khodjamirian, Th. Mannel and B. Melić: Charmless B decays and QCD light-cone sum rules - a recent development, Proc. of the 4th International Workshop on the CKM Unitarity Triangle, Nagoya, Japan, December 12-16, 2006.
21. B. Melić: Introduction to Φ_2 from charmless B decays, Proc. of the 4th International Workshop on the CKM Unitarity Triangle, Nagoya, Japan, December 12-16, 2006.
22. A. Khodjamirian, Th. Mannel, M. Melcher and B. Melić: $B \rightarrow \pi \pi$ hadronic amplitudes from QCD light-cone sum rules, Proc. of EPS International Europhysics Conference on High Energy Physics (HEP-EPS 2005), Lisbon, Portugal, 21-27 Jul 2005, PoS HEP2005:194-197, 2006.
23. B. Melić: $B \rightarrow \pi$ and $B(s) \rightarrow K$ form factors and V_{ub} determination, Proc. of the 34th International Conference on the High Energy Physics (ICHEP08), Philadelphia, USA, July 29th- August 5th, 2008, SLAC's eConf Proceedings.
24. S. Groote, J.G. Koerner, B. Melić and S. Prelovšek: Single top quark polarization at $O(\alpha_S)$ in $t\text{-}\bar{t}$ production at a polarized linear e^+e^- collider, Proc. of 2nd LHC Forum Meeting, Munich, Germany, 14-15 July 2011 and Helmholtz Alliance Linear Collider Forum : Proceedings of the Workshops Hamburg, Munich, Hamburg 2010-2012, Germany.

A: Invited plenary talks at international conferences

- 2002** "Exclusive nonleptonic B decays from QCD light-cone sum rules", invited plenary talk given at the International School on Heavy Quark Physics, Dubna, Russia, May 27 - Jun 5, 2002.
- 2003** "Some aspects of (charmless) B decays from QCD light-cone sum rules", invited plenary talk given at International Conference on Flavor Physics and CP Violation, FPCP 2003, Ecole Polytechnique, Paris, France, June 3-6, 2003.
- 2003** "LCSR analysis of exclusive two-body B decays", invited plenary talk given at 3rd International Workshop on B physics and CP violation (BCP3), Taipei, Taiwan, September 29 - October 1, 2003.
- 2010** "Charmless two-body B-decays in QCD", invited talk given at the 3rd Workshop on Theory, Phenomenology and Experiments in Heavy Flavour Physics (Capri2010), Anacapri, Island of Capri, Italy, July 3- 5, 2010.
- 2011** "CP violation with the fourth generation of quarks", invited talk given at the Int. Workshop The Role of Heavy Fermions in Fundamental Physics (Portoroz 2011), Portoroz, Slovenia, April 11-14, 2011.

B: Invited talks at international conferences

- 1999** "Perturbative approach to the penguin induced $B \rightarrow \pi \Phi$ decay", invited talk (parallel session) given at the International Europhysics Conference, HEP99, Tampere, Finland, July 15-21, 1999 .
- 2000** "NLO prediction and scale dependence of the pion form factor", invited talk given at the Workshop on the Pion Form Factor, NIKHEF, Amsterdam, Netherland, January 18, 2000 .
- 2000** "Lifetime pattern of heavy hadrons", invited talk (parallel session) given at the 30th International Conference on the High Energy Physics, ICHEP 2000, Osaka, Japan, July 27 - August 2, 2000.
- 2000** "Heavy flavour hadrons - inclusive decays and lifetimes", invited talk given at the International Conference "LHC days in Split", Split, Croatia, October 4-7, 2000.
- 2002** "Nonfactorizable effects in $B \rightarrow J/\psi K$ ", invited talk (parallel session) given at the Workshop on B physics and CP violation, Frontier Science 2002, INFN, Frascati, Italy, October 6-11, 2002.
- 2003** "Charming penguins in $B \rightarrow \pi \pi$ from QCD light-cone sum rules", invited (parallel session) talk given at the Workshop on the CKM Unitarity Triangle, IPPP Durham, England, April 5-9, 2003.
- 2003** "Estimate of charming penguins in $B \rightarrow \pi \pi$ ", invited talk (parallel session) given at the International Europhysics Conference on High Energy Physics EPS , Aachen, Germany, July 17-23, 2003.
- 2004** "Charmless B decays and (non)factorization", invited talk given at the International conference 2004 LHC Days in Split, Split, Croatia, October 5-9, 2004.
- 2006** "QCD light-cone sum rules for charmless B decays - most recent developments", invited talk given at the 4th International Workshop on the CKM Unitarity Triangle, Nagoya, Japan, December 12-16, 2006.
- 2006** "Introduction to Φ_2 from charmless B decays", invited talk given at the 4th International Workshop on the CKM Unitarity Triangle, Nagoya, Japan, December 12-16, 2006.
- 2008** "B \rightarrow π and B(s) \rightarrow K form factors and V_{ub} determination", invited talk given at the 34th International Conference on the High Energy Physics (ICHEP08), Philadelphia, USA, July 29-August 5, 2008.
- 2010** "B-physics in the LHC era - an overview", invited talk given at the International conference LHC Days in Split - 2010, Split, Croatia, October 4-9, 2010.
- 2011** "The puzzling B \rightarrow PP decays", invited talk given at the Workshop "Colour meets flavour", (Quantum Chromodynamics and Flavour Physics), University of Siegen, Germany, October 13-14, 2011.

2012 "Discerning new physics in tt-production from the top spin observables", invited talk given at the 18th International Symposium on Particles, Strings and Cosmology, PASCOS2012, Merida, Mexico, June 3-8, 2012.

C: Other talks at international conferences

1997 "Inclusive charmed baryon decays and lifetimes", talk given at the XVI Autumn School and Workshop on Fermion Masses, Mixing and CP violation, Lisbon, Portugal, October 6-15, 1997.

1998 "Perturbative approach to the penguin-induced $B \rightarrow \pi \Phi$ ", talk given at the Triangle Seminar on Particle Physics, Vienna, Austria, November 27-28, 1998.

1999 "Perturbative approach to the penguin induced $B \rightarrow \pi \Phi$ decay", poster, EPS-11: Trends in Physics, London, UK, September 6-10, 1999 .

1999 "Preasymptotic effects in b-decays", talk given at The 3rd International Conference on B Physics and CP Violation, Taipei, Taiwan, December 3-7, 1999.

2001 "The lifetimes of heavy hadrons - A theoretical appraisal", poster, The 4th International Conference on B Physics and CP Violation, Ise-Shima, Japan, February 19-23, 2001.

2006 "Exclusive B decays in QCD", talk given at Symposium QCD: Facts and Prospects, Oberwoelz, Styria, Austria, September 10-16, 2006.

D: Talks at foreign institutions

1992 "Implications of large strangeness components in the nucleon", talk given at Institut fuer Theoretische Teilchenphysik, Universitaet Karlsruhe, Germany, October 14, 1992.

1993 "Relativistic Zeeman splitting in two-body atoms", talk given at Institute of Physics, University of Oslo, Norway, September 22, 1993.

1999 "Neutrino story", invited talk given at Institut Superieur de Technologie Luxembourg, Luxembourg, March 22, 1999.

2001 "BLM scale setting for the pion transition form factor", talk given at Universitaet Wuppertal, Germany, June 5, 2001.

2002 "Exclusive nonleptonic B decays from QCD light-cone sum rules", talk given at Institut fuer Theoretische Physik und Astrophysik, Universitaet Wuerzburg, Germany, October 24, 2002.

2003 "Theoretical aspects of heavy hadron lifetimes", talk given at National Taiwan University, Taipei, Taiwan, October 6, 2003.

2004 "Lifetimes of charmed and beauty hadrons", talk given at Universitaet Siegen, Germany, June 23, 2004.

2005 "Light-Cone Sum Rules in Charmless B-Decays", talk given at Ludwig-Maximilians-Universitaet Muenchen, Germany, January 12, 2005.

2005 "Light-Cone Sum Rules for nonleptonic B decays", talk given at Jozef Stefan Institute, Ljubljana, Slovenia, December 19, 2005.

2006 "Exclusive B meson decays from QCD sum rules", talk given at Universit´e Catholique de Louvain, Louvain-la-Neuve, Belgium, June 23, 2006.

2008 "Exclusive charmless B-meson decays in QCD", talk given at Technion, Haifa, Israel, December 1, 2008.

2009 "Exclusive charmless B-meson decays in QCD", talk given at Wayne State University, Detroit, USA, November 4, 2009.

2010 "CP violation and the 4th generation" talk given at LPT, CNRS at University of Paris-Sud 11, Orsay, France, January 19, 2010.

2010 "CP violation and the 4th generation" talk given at Jozef Stefan Institute, Ljubljana, Slovenia, March 18, 2010.

E: Other talks

2005 "Razvoj subatomske fizike", invited talk (in Croatian) at the workshop "World year of physics 2005", Croatian Academy of Science and Arts, December 9th, 2005.

