

Curriculum Vitae

PERSONAL INFORMATION

Name and surname **BLAŽENKA MELIĆ**
Academic title Prof. Dr.sc. (Dr.rer.nat.)
Senior scientist with tenure/ equiv. Full Professor with tenure
Year and institution of PhD obtained 1994, Universität Karlsruhe, Germany
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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**
flavor physics, perturbative and nonperturbative quantum chromodynamics, collider physics, physics beyond Standard Model

PROFESSIONAL EXPERIENCE

Date (from – until) 9/2016 -
Institution *Rudjer Boskovic Institute*
Position **Head of the Theoretical Physics Division**

Date (from – until) 3/2013 -
Institution *Rudjer Boskovic Institute*
Position **Head of the Group for Particle Physics and Cosmology**

Date (from – until) 7/2017 -
Institution *Rudjer Boskovic Institute*
Position **Senior Scientist with Tenure (equiv. to Full Professor with tenure)**
Work field *Theoretical particle physics*

Date (from – until) 5/2020 -
Institution *University of Zagreb*
Position **Associate Professor – scientific title**

Date (from – until) 11/2015 -
Institution *University of Rijeka*
Position **Full Professor – scientific title**

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

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

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

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

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

EDUCATION

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

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

Date	22.1. 1991
Place	<i>Zagreb, Croatia</i>
Institution	<i>University of Zagreb</i>
Title of qualification awarded	Dipl. Ing. Phys., Mag. Phys.

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

TRAINING AND VISITS TO FOREIGN RESEARCH AND EDUCATION INSTITUTIONS

Year 4/2018 – 6-2018
 Place Mainz, Germany
 Institution Universität Mainz, Institut für Physik / **Alexander von Humboldt fellow – renew visit**

Year 10/2012 – 4/2013
 Place Riverside, USA
 Institution University of California Riverside / **Fulbright Fellow**

Year 11-12/2011
 Place Ljubljana, Slovenia
 Institution Jožef Stefan Institute

Year 11-12/2008
 Place Haifa, Israel
 Institution Technion

Year 8/2007
 Place Geneva, Switzerland
 Institution CERN

Year 11/2002 – 5/2003
 Place Karlsruhe, Germany
 Institution Universität Karlsruhe, Institut für theoretische Teilchenphysik

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 / **Alexander von Humboldt fellow**

Year 12/1992 – 11/1994
 Place Karlsruhe, Germany
 Institution Universität Karlsruhe, Institut für theoretische Teilchenphysik
 PhD in Physics

LANGUAGES

MOTHER TONGUE	Croatian
ENGLISH	speaking/writing/reading- excellent (C2)/excellent(C2)/excellent(C2)
GERMAN	speaking/writing/reading- excellent (C2)/excellent(C2)/excellent(C2)
SPANISH	speaking/writing/reading- good (B1)/very good(B2)/very good(B2)
ITALIAN	speaking/writing/reading- basic (A1)/good(A1)/good(A1)

RESEARCH AND OTHER PROJECTS

2020-now (2/2024) principal investigator on the research project "Heavy Hadron Decays and Lifetimes", financed by the Croatian Science Foundation (HrZZ)

2021-now (12/2023) principal investigator on the research project "Understanding flavor anomalies in heavy quark decays", institutional partnership (RBI, Zagreb, University of Siegen and Technische Universität München), promoted by the Alexander von Humboldt foundation; together with Prof.dr. Th. Mannel (U.Siegen) and dr. D. Van Dyk (TUM)

2018-2020 principal investigator of the structural Croatian project "Sinergijom do uspjeha: RBI-T-WINNING i ESIF udruženi u jačanju izvrsnosti Zavoda za teorijsku fiziku Instituta Ruđer Bošković (RBI-TWINN-SIN), financed by the Ministry of Science of the Republic of Croatia

2014-2018 principal investigator on the research project "Physics of the Standard Model and Beyond", financed by the Croatian Science Foundation (HrZZ)

2017-2021 investigator on the research project "Terascale Physics for the LHC and Cosmos", financed by the Croatian Science Foundation (HrZZ)

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 2016 teaching postgraduate course "Elementary particle physics" at University of Zagreb

from 2022 teaching postgraduate course "Effective field theories" at University of Zagreb

2006- 2016 initiating and teaching the postgraduate course "Effective field theories and physics of heavy quarks" at University of Zagreb

2014-2016 graduate course "Elementary particle physics 2", at University of Rijeka

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

4-6/2018 Alexander von Humboldt renewed fellowship

ORGANIZATIONAL SKILLS AND COMPETENCES

2022 co-chair of iInt. Workshop " Quirks in Quark Flavour Physics", Zadar, 14-17. June 2022;

2022 Advisory board member of Int. Conference "LHC days in Split", Split, 3-8. Oct 2022;

2020 Advisory board member of Int. Conference "LHC days in Split", Split, 28 Sept -3. Oct 2020;
 2019 member of the organizing committee of the Int. workshop "Bridging perturbative and non-perturbative physics", Primošten, 7-9. listopada 2019
 2018 Advisory board member of Int. Conference "LHC days in Split", Split, 17 -22. Sept 2018;
 2017 member of the organizing committee of "Current Trends in Flavor Physics", Paris, France, 29 – 31 March 2017;
 2016 Advisory board member of Int. Conference "LHC days in Split", Split, 19 -24. Sept 2016;
 2014 Advisory board member of Int. Conference "LHC days in Split", Split, 29. Sept - 4. Oct 2014;
 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 COMMISSIONS, COMMITTEES, BOARDS AND WORK GROUPS

from 2016 head of the Theoretical Physics Division, Rudjer Boskovic Institute
 from 2013 member of the Scientific Council of Rudjer Boskovic Institute
 from 2013 head of the Particle Physics and Cosmology Group, Rudjer Boskovic Institute
 from 2013 coordinator in Commission for the collaboration between RBI and PMF, University of Zagreb
 from 2019 member of the evaluation panel for scientific projects of Croatian Science Foundation
 from 2019 member of the Commission for cooperation with CERN appointed by Ministry of Science and Education of Republic Croatia

2011-2014 head of the Commission for the purchase of computer equipment at RBI
 2007-2009 member of the administrative board of the Croatian Humboldt Club
 member of the Croatian Humboldt Club
 member of the Croatian Physical Society

OTHER RESEARCH ACTIVITIES

2012 –2017 **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 100 refereed papers) for the following journals:

- "Nuclear Physics B" (from 2014-)
- "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 HEP-INSPIRES database, August 2022
(CC = papers in the Current Content journals)*

CITESUMMARY (SLAC INSPIRE database, March 2020):

- total number of the published papers: **47** (44 CC -> 43 in Q1)
- total numbers of the proceedings papers: **34** (17 CC - refereed proceedings)
- total number of citations: **>= 1700**
- average citations per paper: **34**
- h-index: **25**

TALKS:

- invited plenary talks at international conferences: **10**
- invited talks at international conferences: **27**
- other talks at international conferences: **6**
- talks at the foreign institutions: **16**