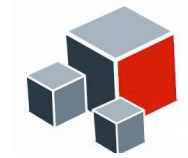


# Životopis HRZZ obrazac



## OSOBNI PODATCI

Ime i prezime **Vuko Brigljević**  
 Titula Dr. sc.  
 Godina i ustanova stjecanja doktorata 1999, ETH Zurich (Švicarska)  
 Adresa Institut Ruđer Bošković, Bijenička 54, 10000 Zagreb  
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 Osobna mrežna stranica <http://cern.ch/vuko>  
 Državljanstvo Hrvatsko i švicarsko  
 Datum i mjesto rođenja 15.04.1968 u Dubrovniku

## RADNO ISKUSTVO<sup>1</sup>

(KRONOLOŠKI)

Datumi (od – do) 2008 - danas  
 Ustanova zapošljenja Institut Ruđer Bošković  
 Naziv Radnog mjesta Viši znanstveni suradnik  
 Područje rada Eksperimentalna fizika elementarnih čestica – CMS Eksperiment

Datumi (od – do) 2003 - 2008  
 Ustanova zapošljenja Institut Ruđer Bošković  
 Naziv Radnog mjesta Znanstveni suradnik  
 Područje rada Eksperimentalna fizika elementarnih čestica – CMS Eksperiment

Datumi (od – do) 2002 – 2003  
 Ustanova zapošljenja European Organization for Nuclear Research (CERN), Geneva, Switzerland  
 Naziv Radnog mjesta Research Fellow  
 Područje rada Eksperimentalna fizika elementarnih čestica – CMS Eksperiment

Datumi (od – do) 1999 – 2002  
 Ustanova zapošljenja Lawrence Livermore National Laboratory, Livermore, USA  
 Naziv Radnog mjesta Postdoctoral Research Associate  
 Područje rada Eksperimentalna fizika elementarnih čestica – BABAR Eksperiment

Datumi (od – do) 1994 – 1999  
 Ustanova zapošljenja ETH Zurich, Zurich, Switzerland  
 Naziv Radnog mjesta Assistant, graduate student  
 Područje rada Eksperimentalna fizika elementarnih čestica – L3 Eksperiment

<sup>1 2 3</sup> Molimo po potrebi dodajte redove kako biste unijeli sve podatke  
 · sve podatke u dokumentu navesti kronološki - od najnovijeg prema najstarijem  
 ©hrzz

**ŠKOLOVANJE<sup>2</sup>**  
 (KRONOLOŠKI)

Datum 1999  
 Mjesto *Zurich, Švicarska*  
 Ustanova *ETH Zurich*  
 Zvanje *Dr.sc.nat.*

Datum 1993  
 Mjesto *Zurich, Švicarska*  
 Ustanova *ETH Zurich*  
 Zvanje *Dipl. phys.*

Datum 1987  
 Mjesto *Fribourg, Švicarska*  
 Ustanova *Collège St-Michel*  
 Zvanje *Švicarska državna matura*

**USAVRŠAVANJE**  
 (KRONOLOŠKI)

Godina 1994  
 Mjesto *Sorrento, Italija*  
 Ustanova *European School of High Energy Physics, CERN*  
 Područje *Teorija i fenomenologija fizike čestica*

Godina 1995  
 Mjesto *Zurich, Švicarska*  
 Ustanova *Institute for Particle Physics, ETH Zurich*  
 Područje *Elektronika i prikupljanje podataka za driftne komore*

Godina 1996  
 Mjesto *Geneva, Switzerland*  
 Ustanova *CERN*  
 Područje *"Data Mining" metode u eksperimentalnoj fizici čestica*

Godina 1997  
 Mjesto *Zurich i Geneva, Switzerland*  
 Ustanova *ETH Zurich*  
 Područje *Instalacija i administracija klastera Unix i Linux računala.*

Godina 1999  
 Mjesto *Geneva, Switzerland*  
 Ustanova *CERN*  
 Područje *Objekt orientirane baze podataka*

Godina 1999  
 Mjesto *Stanford, SAD*  
 Ustanova *SLAC Summer Institute, Stanford Linear Accelerator Center*  
 Područje *Teorija i fenomenologija fizike čestica*

Godina 1999  
 Mjesto Livermore, SAD  
 Ustanova Lawrence Livermore National Laboratory  
 Područje Rad sa plinovima pod pritiskom

Godina 2000  
 Mjesto Stanford, SAD  
 Ustanova Stanford Linear Accelerator Center  
 Područje Rad sa "resistive plate chamber" detektorima čestica

Godina 2000  
 Mjesto Stanford, SAD  
 Ustanova Stanford University  
 Područje Web design

Godina 2001  
 Mjesto Stanford, SAD  
 Ustanova SLAC Summer Institute, Stanford Linear Accelerator Center  
 Područje Teorija i fenomenologija fizike čestica

Godina 2002  
 Mjesto Geneva, Switzerland  
 Ustanova CERN  
 Područje Web aplikacije za sustave prikupljanja podataka

Godina 2003  
 Mjesto Geneva, Switzerland  
 Ustanova CERN  
 Područje Paralelno programiranje za sustave prikupljanja podataka

Godina 2003  
 Mjesto Geneva, Switzerland  
 Ustanova CERN Academic Training  
 Područje Statističke metode za analizu podataka

Godina 2004  
 Mjesto Geneva, Switzerland  
 Ustanova CERN  
 Područje Automatizirano upravljanje velikim Linux klasterima

**JEZICI****MATERINSKI JEZIK Hrvatski****ENGLJSKI JEZIK**

Govori Izvrsno  
 Piše Izvrsno  
 Čita Izvrsno

**DRUGI STRANI JEZICI<sup>3</sup>**

Jezik **Francuski**  
 Govori Izvrсно  
 Piše Izvrсно  
 Čita Izvrсно

Jezik **Njemački**  
 Govori Izvrсно  
 Piše Dobro  
 Čita Izvrсно

Jezik **Španjolski**  
 Govori Izvrсно  
 Piše Dobro  
 Čita Izvrсно

Jezik **Talijanski**  
 Govori Dobro  
 Piše Radno  
 Čita Dobro

**ZNANSTVENI I DRUGI PROJEKTI**

(KRONOLOŠKI; VOĐENJE I SUDJELOVANJE; IZVOR FINANCIRANJA)

Znanstveni projekti:**Compact Muon Solenoid (CMS) eksperiment na CERN-u: 2002-danas**

- Dizajn sustava filtriranja podataka
- Razvoj "High Level Trigger" algoritma
- Razvoj alata za nadzor kvalitete podataka u CMS eksperimentu
- Mjerenje dibozonskih procesa I potraga za anomalnim trobaždarnim vezanjima (odgovoran za vođenje tih analiza u CMS kolaboraciji od 2008.)
- Direktne portage za novom fizikom

Funding source: Croatian Ministry of science

**BABAR eksperiment na SLAC-u: 1999-2004**

- Prvo opažanje CP narušenja (asimetrija između materije I antimaterije) u neutralnim B mezonima
- Praćenje rada RPC detektora (glavna odgovorna osoba za rad RPC sustava u BABAR 2000.)

**L3 eksperiment na CERN-u: 1994-1999**

- Mjerenje oscilacija čestica-antičestica kod neutralnih B mezona
- Razvoj nove kalibracijske metode za centralnu driftnu komoru L3 eksperimenta
- Određivanje područja interakcije snopa

Financiranje

Sudionik u programu "Eksperimentalna fizika visokih energija u okviru i izvan Standardnog modela" (2006-), MZOŠ

Inicijator i glavni hrvatski nositelj SCOPES projekta «Exploiting the LHC Potential to build Collaboration in Science and Technology» Švicarske zaklade za znanost koji uspostavlja suradnju između Instituta Ruđer Bošković, Instituta Paul Scherer (Švicarska) i Sveučilišta u Sarajevu (Bosna i Hercegovina).

Sudionik u FP7 projektu «Particle Detectors».

**NASTAVNA DJELATNOST**

(KRONOLOŠKI; PREDDIPLOMSKA, DODIPLOMSKA, DIPLOMSKA, POSLIJEDIPLOMSKA NASTAVA )

1994-1999: Predavač na preddiplomskoj nastavi na ETH Zurichu

- Vježbe iz opće fizike
- Vježbe iz fizike elementarnih čestica

Od 2005.: Predavač na dodiplomskoj i poslijediplomskoj nastavi na Prirodoslovno-matematičkom fakultetu, Sveučilišta u Zagrebu, smjer Fizika:

- Uvod u računalne mreže (preddiplomska nastava, profesorski smjer)
- Seminar iz fizike elementarnih čestica (dodiplomska nastava, istraživački smjer)
- Seminar iz istraživanja u fizici elementarnih čestica (dodiplomska nastava, istraživački smjer)
- Metode statističke analize u fizici elementarnih čestica (poslijediplomska nastava)

**MENTORSTVO OBRANJENIH DOKTORSKIH DISERTACIJA I MAGISTARSKIH RADOVA****I PODIZANJE ZNANSTVENOGA POMLATKA**

(KRONOLOŠKI)

- Voditelj diplomskog rada Siniše Čoha: "Procjena mogućnosti mjerenja gravitacijske interakcije antivodika", diplomirao u srpnju 2006.
- Voditelj diplomskog rada Senke Pintarić: "Anomalna vezanja baždarnih bozona na LHC-u", diplomirala u travnju 2007.
- Suvoditelj doktorske radnje Mr. Sc. Kristine Marasović: «Inteligentno upravljanje grozdom računala za filtriranje događaja u eksperimentima fizike elementarnih čestica», doktorirala u veljači 2009.
- Voditelj diplomskog rada Dinka Ferenčeka, «Mjerenje WZ produkcije na LHC-u», diplomirao u lipnju 2006.
- Mentor doktorsog rada znanstvenog novaka Srećka Morovića od 2007., očekivani datum doktorse obrane ljeto 2011.
- Mentor doktorsog rada znanstvene novakinje Jelene Luetić od 2011., očekivani datum doktorse obrane 2016.
- Mentor diplomskog rada Lucije Tikvice, očekivani datum obrane u prosincu 2011.
- Voditelj diplomskog rada Artura Barczyka na ETH Zurich: «Determination of the beam spot position at LEP2», diplomirao na jesen 1996.

Inicijator i voditelj «Journal Club» grupe za znanstvene novake na SLAC-u (2000-2001.) i na Institutu Ruđer Bošković (od 2004. do danas).

**GOSTOVANJE NA STRANIM ZNANSTVENIM USTANOVAMA**

**(KRONOLOŠKI; BORAVCI DUŽI OD 3 MJESECA)**

Od 1994 do 1999 godine bio sam na ETH u Zurichu, Švicarska, kao doktorand.

Od 1994 do 1999 godine bio sam na CERN-u, Ženeva, Švicarska, kao gostujući znanstvenik.

Od 1999 do 2002 godine bio sam na postdoktorskoj specijalizaciji na Lawrence Livermore National Laboratory, u Livermore-u, SAD.

Od 1999 do 2002 godine bio sam na Stanford University, u Stanford-u, SAD, kao gostujući znanstvenik na Stanford Linear Accelerator Center-u (SLAC).

Od 2002 do 2003 godine boravio sam na CERN-u kao *Research Fellow*.

**NAGRADE I PRIZNANJA****(KRONOLOŠKI)**

Pozvana predavanja na međunarodnim konferencijama:

- Upsilon production in hadronic Z decays, Hadron'97 - The 7th International Conference on Hadron Spectroscopy, Brookhaven (USA), 25-30 August 1997.
- Spectroscopy of Excited B mesons in Hadronic Z decays, DPF99 conference, University of California at Los Angeles, Los Angeles (USA), January 5-9 1999.
- Charmonium and Electroweak Penguins in BABAR, XXXVIth Rencontres de Moriond, Les Arcs (France), 17-24 March 2001.
- Recent Results from BABAR and BELLE, LHC Days in Split, Split (Croatia), 8-12 October 2002.
- The CMS High Level Trigger System, 2004 LHC Days in Split, Split (Croatia), 4-9 October 2004.
- Measurement of Di-Boson Production with CMS, Physics at LHC, Cracow (Poland), 3-8 July 2006.
- Early diboson measurements at the LHC, Physics at LHC, Split (Croatia), 29 September - 4 October 2008.
- Low Pt Physics with CMS, LHC Days in Split, Split (Croatia), 4-9 October 2010.
- Standard Model Measurements with CMS, Beyond the Standard Model: results with the 7 TeV LHC Collision Data, ICTP, Trieste (Italy), 19-23 September 2011.

Pozvan kao hrvatski predstavnik na sastanku «International Committee for Future Accelerators», Stanford (SAD), Listopad 2008.

**ORGANIZACIJSKE VJEŠTINE I KOMPETENCIJE****(KRONOLOŠKI; ORGANIZACIJA DOMAĆIH I MEĐUNARODNIH ZNANSTVENIH DOGAĐANJA)**Organizacija međunarodnih skupova

2004 LHC Days in Split, Split, October 5.-9., 2004., Član Local Organizing Committee

2006 LHC Days in Split, Split, October 2.-7., 2006., Član Local Organizing Committee

Physics at LHC, Split, September 29 - October 4, 2008., Član Organizing Committee

2010 LHC Days in Split, Split, October 4.-9., 2010., Član Organizing Committee

Druga događanja

Inicijator i član organizacijskog odbore prvog i drugog festivala mladih znanstvenika zavoda za eksperimentalnu fiziku 2010. i 2011.

Organizacija znanstvenog rada

Odgovoran za koordinaciju svih dibozonskih mjerenja u CMS kolaboraciji od 2008.

Odgovoran za praćenje rada RCP sustava u BABAR kolaboraciji 2000.

**ČLANSTVA U ZNANSTVENIM ORGANIZACIJAMA I TIJELIMA**

(KRONOLOŠKI; DOMAĆE I MEĐUNARODNE ORGANIZACIJE I TIJELA)

Član L3 kolaboracije na CERN-u (1994-2000.)  
 Član BABAR kolaboracije na SLAC-u (1999-2004.)  
 Član CMS kolaboracije na CERN-u (2002-danas)

**POVJERENSTVA, ODBORI I RADNE SKUPINE**

(KRONOLOŠKI; DOMAĆI I MEĐUNARODNI)

Član više povjerenstva za izbor na radna mjesta na Institutu Ruđer Bošković.  
 Član povjerenstva za novake u zavodu za eksperimentalnu fiziku na Institutu Ruđer Bošković.

**ZNANSTVENI RADOVI**(KRONOLOŠKI; ZNANSTVENE KNJIGE, DOMAĆI I MEĐUNARODNI ZNANSTVENI ČASOPISI, ZBORNICI RADOVA DOMAĆIH I MEĐUNARODNIH ZNANSTVENIH SKUPOVA; **POTREBNO JE NAVJESTI I NJIHOV ODJEK**)

1.) [Search for Supersymmetry in Events with b Jets and Missing Transverse Momentum at the LHC.](#)

By CMS Collaboration  
 JHEP 1107:113,2011,. [arXiv:1106.3272] Impact Factor: 6.02

2.) [Search for Light Resonances Decaying into Pairs of Muons as a Signal of New Physics.](#)

By CMS Collaboration  
 JHEP 1107:098,2011,. [arXiv:1106.2375] Impact Factor: 6.02

3.) [Search for Same-Sign Top-Quark Pair Production at  \$\sqrt{s} = 7\$  TeV and Limits on Flavour Changing Neutral Currents in the Top Sector.](#)

By CMS Collaboration  
 JHEP 1108:005,2011,. [arXiv:1106.2142] Impact Factor: 6.02

4.) [Measurement of the  \$t\bar{t}\$  production cross section and the top quark mass in the dilepton channel in pp collisions at  \$\sqrt{s} = 7\$  TeV.](#)

By CMS Collaboration  
 JHEP 1107:049,2011,. [arXiv:1105.5661] Impact Factor: 6.02

5.) [Indications of suppression of excited  \$Y\$  states in PbPb collisions at  \$\sqrt{s\_{NN}} = 2.76\$  TeV.](#)

By CMS Collaboration  
 Phys.Rev.Lett. 107:052302,2011,. [arXiv:1105.4894] Impact Factor: 7.32

6.) [Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at  \$\sqrt{s} = 7\$  TeV.](#)

By CMS Collaboration  
 JHEP 1106:093,2011,. [arXiv:1105.3152] Impact Factor: 6.02

7.) [Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC.](#)

By CMS Collaboration  
 JHEP 1106:077,2011,. [arXiv:1104.3168] Impact Factor: 6.02

8.) [Measurement of the  \$B\_0\$  production cross section in pp Collisions at  \$\sqrt{s} = 7\$  TeV.](#)

By CMS Collaboration  
 Phys. Rev. Lett. 106:252001,2011,. [arXiv:1104.2892] Impact Factor: 7.32

9.) [Measurement of the differential dijet production cross section in proton-proton collisions at  \$\sqrt{s} = 7\$  TeV.](#)

By CMS Collaboration  
 Phys.Lett. B700: 187-206,2011,. [arXiv:1104.1693] Impact Factor: 6.02

[10.\) Search for Large Extra Dimensions in the Diphoton Final State at the Large Hadron Collider.](#)

By CMS Collaboration

JHEP 1105:085,2011,. [arXiv:1103.4279] Impact Factor: 6.02

[11.\) Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at  \$\sqrt{s}=7\$  TeV.](#)

By CMS Collaboration

JHEP 1104:050,2011,. [arXiv:1103.3470] Impact Factor: 6.02

[12.\) Search for Physics Beyond the Standard Model in Opposite-Sign Dilepton Events at  \$\sqrt{s}=7\$  TeV.](#)

By CMS Collaboration

JHEP 1106:026,2011,. [arXiv:1103.1348] Impact Factor: 6.02

[13.\) Search for Resonances in the Dilepton Mass Distribution in pp Collisions at  \$\(\sqrt{s}\)=7\$  TeV.](#)

By CMS Collaboration

JHEP 1105:093,2011,. [arXiv:1103.0981] Impact Factor: 6.02

[14.\) Search for a W' boson decaying to a muon and a neutrino in pp collisions at  \$\sqrt{s}=7\$  TeV.](#)

By CMS Collaboration

Phys.Lett. B701:160-179,2011,. [arXiv:1103.0030] Impact Factor: 6.02

[15.\) Measurement of W+W- Production and Search for the Higgs Boson in pp Collisions at  \$\sqrt{s}=7\$  TeV.](#)

By CMS Collaboration

Phys.Lett. B699:25-47,2011,. [arXiv:1102.5429] Impact Factor: 6.02

[16.\) Search for a Heavy Bottom-like Quark in pp Collisions at  \$\sqrt{s}=7\$  TeV.](#)

By CMS Collaboration

Phys.Lett. B701:204-223,2011,. [arXiv:1102.4746] Impact Factor: 6.02

[17.\) Strange Particle Production in pp Collisions at  \$\sqrt{s}=0.9\$  and 7 TeV.](#)

By CMS Collaboration

JHEP 1105:064,2011,. [arXiv:1102.4282] Impact Factor: 6.02

[18.\) Measurement of B anti-B Angular Correlations based on Secondary Vertex Reconstruction at  \$\sqrt{s}=7\$  TeV.](#)

By CMS Collaboration

JHEP 1103:136,2011,. [arXiv:1102.3194] Impact Factor: 6.02

[19.\) Measurement of Dijet Angular Distributions and Search for Quark Compositeness in pp Collisions at  \$\sqrt{s}=7\$  TeV.](#)

By CMS Collaboration

Phys.Rev.Lett. 106:201804,2011,. [arXiv:1102.2020] Impact Factor: 7.32

[20.\) First Measurement of Hadronic Event Shapes in pp Collisions at  \$\sqrt{s}=7\$  TeV.](#)

By CMS Collaboration

Phys.Lett. B699:48-67,2011,. [arXiv:1102.0068] Impact Factor: 6.02

[21.\) Dijet Azimuthal Decorrelations in pp Collisions at  \$\sqrt{s}=7\sim\$ TeV.](#)

By CMS Collaboration

Phys.Rev.Lett. 106:122003,2011,. [arXiv:1101.5029] Impact Factor: 7.32

[22.\) Inclusive b-hadron production cross section with muons in pp collisions at  \$\sqrt{s}=7\$  TeV.](#)

By CMS Collaboration

JHEP 1103:090,2011,. [arXiv:1101.3512] Impact Factor: 6.02

[23.\) Measurement of Bose-Einstein Correlations in pp Collisions at  \$\sqrt{s}=0.9\$  and 7 TeV.](#)

By CMS Collaboration

JHEP 1105:029,2011,. [arXiv:1101.3518] Impact Factor: 6.02

[24.\) Search for Supersymmetry in pp Collisions at 7 TeV in Events with Jets and Missing Transverse energy.](#)

By CMS Collaboration

Phys.Lett. B698:196-218,2011,. [arXiv:1101.1628] Impact Factor: 6.02

[25.\) Search for Heavy Stable Charged Particles in pp collisions at  \$\sqrt{s}=7\$  TeV.](#)

By CMS Collaboration



JHEP 1103:024,2011,. [arXiv:1101.1645] Impact Factor: 6.02

[26.\) Measurement of the B+ Production Cross Section in pp Collisions at  \$\sqrt{s}=7\sim\text{TeV}\$ .](#)

By CMS Collaboration

Phys.Rev.Lett. 106:112001,2011,. [arXiv:1101.0131] Impact Factor: 7.32

[27.\) Search for a heavy gauge boson W' in the final state with an electron and large missing transverse energy in pp collisions at  \$\sqrt{s} = 7 \text{ TeV}\$ .](#)

By CMS Collaboration

Phys.Lett. B698:21-39,2011,. [arXiv:1012.5945] Impact Factor: 6.02

[28.\) Upsilon production cross section in pp collisions at  \$\sqrt{s} = 7 \text{ TeV}\$ .](#)

By CMS Collaboration

Phys.Rev. D83:112004,2011,. [arXiv:1012.5545] Impact Factor: 2.93

[29.\) Search for Pair Production of First-Generation Scalar Leptoquarks in pp Collisions at  \$\sqrt{s} = 7 \text{ TeV}\$ .](#)

By CMS Collaboration

Phys.Rev.Lett. 106:201802,2011,. [arXiv:1012.4031] Impact Factor: 7.32

[30.\) Search for Pair Production of Second-Generation Scalar Leptoquarks in pp Collisions at  \$\sqrt{s} = 7 \text{ TeV}\$ .](#)

By CMS Collaboration

Phys.Rev.Lett. 106,2011,. [arXiv:1012.4033] Impact Factor: 7.32

[31.\) Search for Microscopic Black Hole Signatures at the Large Hadron Collider.](#)

By CMS Collaboration

Phys.Lett. B697:434-453,2011,. [arXiv:1012.3375] Impact Factor: 6.02

[32.\) Measurements of Inclusive W and Z Cross Sections in pp Collisions at  \$\sqrt{s}=7 \text{ TeV}\$ .](#)

By CMS Collaboration

JHEP 1101:080,2011,. [arXiv:1012.2466] Impact Factor: 6.02

[33.\) Measurement of the Isolated Prompt Photon Production Cross Section in pp Collisions at  \$\sqrt{s} = 7 \text{ TeV}\$ .](#)

By CMS Collaboration

Phys.Rev.Lett. 106:082001,2011,. [arXiv:1012.0799] Impact Factor: 7.32

[34.\) Charged particle multiplicities in pp interactions at  \$\sqrt{s} = 0.9, 2.36, \text{ and } 7 \text{ TeV}\$ .](#)

By CMS Collaboration

JHEP 1101:079,2011,. [arXiv:1011.5531] Impact Factor: 6.02

[35.\) Search for Stopped Gluinos in pp collisions at  \$\sqrt{s} = 7 \text{ TeV}\$ .](#)

By CMS Collaboration

Phys.Rev.Lett. 106:011801,2011,. [arXiv:1011.5861] Impact Factor: 7.32

[36.\) Prompt and non-prompt J/psi production in pp collisions at  \$\sqrt{s} = 7 \text{ TeV}\$ .](#)

By CMS Collaboration

Eur.Phys.J. C71:1575,2011,. [arXiv:1011.4193] Impact Factor: 2.75

[37.\) First Measurement of the Cross Section for Top-Quark Pair Production in Proton-Proton Collisions at  \$\sqrt{s}=7 \text{ TeV}\$ .](#)

By CMS Collaboration

Phys.Lett. B695:424-443,2011,. [arXiv:1010.5994] Impact Factor: 6.02

[38.\) Search for Quark Compositeness with the Dijet Centrality Ratio in pp Collisions at  \$\sqrt{s}=7 \text{ TeV}\$ .](#)

By CMS Collaboration

Phys.Rev.Lett. 105:262001,2010,. [arXiv:1010.4439] Impact Factor: 7.32

[39.\) Search for Dijet Resonances in 7 TeV pp Collisions at CMS.](#)

By CMS Collaboration

Phys.Rev.Lett. 105:211801,2010,. [arXiv:1010.0203] Impact Factor: 7.32

[40.\) Observation of Long-Range Near-Side Angular Correlations in Proton-Proton Collisions at the LHC.](#)

By CMS Collaboration

JHEP 1009:091,2010,. [arXiv:1009.4122] Impact Factor: 6.02

[41.\) CMS Tracking Performance Results from early LHC Operation.](#)

By CMS Collaboration

Eur.Phys.J. C70:1165-1192,2010,. [arXiv:1007.1988] Impact Factor: 2.75

[42.\) First Measurement of the Underlying Event Activity at the LHC with  \$\sqrt{s} = 0.9\$  TeV.](#)

By CMS Collaboration

Eur.Phys.J. C70:555-572,2010,. [arXiv:1006.2083] Impact Factor: 2.75

[43.\) Measurement of the charge ratio of atmospheric muons with the CMS detector.](#)

By CMS Collaboration

Phys.Lett. B692:83-104,2010,. [arXiv:1005.5332] Impact Factor: 7.32

[44.\) Measurement of Bose-Einstein correlations with first CMS data.](#)

By CMS Collaboration

Phys.Rev.Lett. 105: 032001,2010,. [arXiv:1005.3294] Impact Factor: 7.32

[45\) Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at  \$\sqrt{s} = 7\$  TeV.](#)

By CMS Collaboration

Phys.Rev.Lett.105:022002,2010,. [arXiv:1005.3299] Impact Factor: 7.32

[46\) Transverse momentum and pseudorapidity distributions of charged hadrons in pp collisions at  \$\sqrt{s} = 0.9\$  and 2.36 TeV.](#)

By CMS Collaboration

JHEP 1002:041,2010,. [arXiv:1002.0621] Impact Factor: 6.02

[47\) Alignment of the CMS Muon System with Cosmic-Ray and Beam-Halo Muons.](#)

By CMS Collaboration

JINST 5:T03020,2010,. [arXiv:0911.4022] Impact Factor: 2.10

[48\) Time Reconstruction and Performance of the CMS Electromagnetic Calorimeter.](#)

By CMS Collaboration

JINST 5:T03011,2010,. [arXiv:0911.4044] Impact Factor: 2.10

[49\) Performance Study of the CMS Barrel Resistive Plate Chambers with Cosmic Rays.](#)

By CMS Collaboration

JINST 5:T03017,2010,. [arXiv:0911.4045] Impact Factor: 2.10

[50\) Aligning the CMS Muon Chambers with the Muon Alignment System during an Extended Cosmic Ray Run.](#)

By CMS Collaboration

JINST 5:T03019,2010,. [arXiv:0911.4770] Impact Factor: 2.10

[51\) CMS Data Processing Workflows during an Extended Cosmic Ray Run.](#)

By CMS Collaboration

JINST 5:T03006,2010,. [arXiv:0911.4842] Impact Factor: 2.10

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[53\) Performance of the CMS Drift Tube Chambers with Cosmic Rays.](#)

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**DRUGE ZNANSTVENE AKTIVNOSTI**

(KRONOLOŠKI; UREDNIK ILI ČLAN UREĐIVAČKOG ODBORA ZNANSTVENE KNJIGE, DOMAĆIH I MEĐUNARODNIH ZNANSTVENIH ČASOPISA, ZBORNIKA RADOVA DOMAĆIH I MEĐUNARODNIH ZNANSTVENIH SKUPOVA I DRUGO)

Funkcija recenzenta u znanstvenim časopisima:

Journal of Physics G

European Physics Journal C

New Journal of Physics

Koordinator CERN-ove ljetne škole za dodiplomske studente u Hrvatskoj

**POZNAVANJE RADA NA RAČUNALU**

Poznavanje programskih jezika: C++, C, Fortran, Java, perl, python, shell scripting

Iskustvo sa znanstvenim softverskim paketima: ROOT, PAW, Mathematica, Maple

Poznavanje operacijskih sustava: UNIX (IBM AIX), Linux, Mac OS X, Windows

Iskustvo administracije Linux grozdova

Iskustvo sa radom standardnih uredskih aplikacija (MS Office, OpenOffice, Apple iWork)

**OSTALE VAŽNE VJEŠTINE I KOMPETENCIJE**

**DODATNI PODATCI I NAPOMENE**