

Darbo MEKTEROVIĆ, PhD

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Born: 24.09.1973 in Zadar, Croatia
Nationality: Croatian

EDUCATION, POSITIONS and RESEARCH EXPERIENCE:

- January 2015 – now **Department of Physics, University of Rijeka; Assistant Professor**
- August 2012 – January 2014 **Ruđer Bošković Institute**, adviser on FP7 REGPOT-2010-5 project "Particle Detectors", member of **CMS** collaboration
- Development of experimental setups for testing particle detectors (with a laser and with a proton beam), in particular test samples of silicon pixel detector of the CMS experiment
 - Work in the "Pixel Offline" group of the CMS experiment on calculation of Lorentz angle
 - Participation in calibration of CMS Pixel detector
- November 2009 – August 2012 **Postdoctoral fellow** at **National Central University** from Taiwan, permanently positioned at **CERN**, member of the **CMS** collaboration
- Main activity was analysis of collected data. Worked in "QCD Photons" and later in "Vector Boson + Jets" groups on prompt photon, and photon associated with jet productions, and on Z jet angular correlation. Significantly contributed to 3 published articles plus one submitted for publication.
- January 2002 – October 2009 Assistant at **Ruđer Bošković Institute**, **PhD student** at **University of Zagreb**, member of **Crystal Ball** and **PIBETA** collaborations
- **Obtained PhD in physics** in April 2009. under supervision of dr. Ivan Supek. Thesis topic was cross section measurement of the pion-nucleon charge-exchange reaction at low energies.
 - Participated in experiment preparation and data taking at Brookhaven National Laboratory (Crystal Ball collaboration, 4 months), Paul Sherrer Institute (PIBETA collaboration, 3 months in total) ,and Mainz (Crystal Ball collaboration, total 3 months). Main contribution was calibration and monitoring of the Crystal Ball detector.

October 2001 **Graduated physics** at the University of Zagreb

- Diploma thesis topic (adviser prof. Dubravko Klabučar) was numerical calculation of the parameters of MIT bag model with instanton interaction.

LANGUAGES:

Croatian (mother tongue), **English** (fluent), **German** (beginner)

TEACHING and MENTORING EXPERIENCE:

2013 – 2014 Teaching assistant on course Computing (programming in C) at Department of Physics, University of Zagreb

2009 – 2012 Help in supervising PhD and master students

PRESENTATIONS at CONFERENCES:

- Physics at LHC 2012, Vancouver Canada: plenary talk "Direct photon and jet properties" in which results of both CMS and ATLAS collaborations were presented.
- 2nd Conference on Nuclear and Particle Physics with CEBAF at Jlab 2003, Dubrovnik Croatia: invited talk "Differential cross sections of the charge exchange reaction".