Jelena Luetić

Personal

Address	Supilova 7, 10000 Zagreb, Croatia
Date of Birth	April 5, 1987
Citizenship	Croatian
Phone	+385 91 1480103
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Languages	English, basic Italian and French, Croatian - native

Education

2011 -	**PhD**, Faculty of Science, Physics department *Title*: Measurement of the cross section for associated production of a W boson and two b quarks with the CMS detector at the Large Hadron Collider *Advisor:* Prof. Vuko Brigljević, thesis defence is scheduled for July, 15th 2015.
2005 - 2010	**MSc**, Faculty of Science, Physics department *Title*: Measurement of Z boson cross section in proton-proton collisions with CMS detector at Large Hadron Collider *Advisor:* Prof. Ivica Puljak, thesis defended on November, 30th 2010.

Professional experience

CMS Experiment - Since 2010 I've been a part of the CMS group at Ruđer Bošković Institute, working on gauge boson produced in association with jets measurements and on technical aspects of CMS detector:

- One of the main contributors to Wbb cross section measurement at $\sqrt{s} = 8$ TeV. Collaboration with University of Wisconsin-Madison, University of Trieste and CERN.
- Responsible for Lorentz angle monitoring and calibration for CMS Pixel detector.
- Responsible for development and maintenance of technical tools used in the offline analysis shared with other members of CMS Pixel group.

- Participated in pixel detector recommissioning during the long shutdown.
- Paricipated in CMS Pixel Operations

Particle Detectors During 2012 and 2013 I participated in several

- bla

ACE - Antimatter Cell Experiment - during the CERN Summer student programme, I was a part of ACE experiment, which explores the potential of using antiprotons for cancer therapies. This is an interdisciplinary project, which brings together experts from biology, physics and medicine from more than 10 countries. My contribution to the experiment was:

- Development of the interface for the remote control of the power supplies for the detectors used in the experiment. This was done in LabView
- Development of the online data analysis software

Teaching

2011 - 2015	Faculty of Science, Zagreb, Croatia Teaching assistant in 2 courses - *Introductory laboratory exercises* (2011.- 2012.) and *Programming in C* (2011.-2015.)
2010 - 2011	Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture in Split, Croatia Teaching assistant - *Laboratory exercises in Modern physics*

Schools and Conferences

2009	CERN Summer Student Programme, Geneva, Switzerland
2010	CERN School of Computing, London, UK
2011	CMSDAS - Data analysis school, Pisa, Italy
2012	Silicon Detector Workshop, Split, Croatia *Talk:* Lorentz angle measurement in CMS Pixel detector
2013	EDIT - Excellence in Detectors, Tsukuba, Japan *Poster*: CMS Pixel detector and Lorentz angle determination
2014	Fermilab - CERN Hadron Collider School, Fermilab, USA

Computer skills

- Computer languages: C, C++, Fortran, Python
- Software: ROOT, Mathematica, LabView

Other

Participation in various physics and science outreach programs:

- Organization of International Masterclasses: lectures and laboratory exercises for high school students covering various topics in high energy physics.
- Participated in several science fairs for general public demonstrating experiments.

Publications