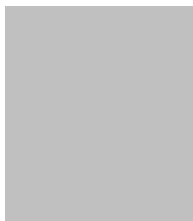


## PERSONAL INFORMATION

Dr. Rer. Nat. Florin MACIUC



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 skype

Sex Male | Date of birth 24/09/1975 | Nationality Romanian

## POSITION WITHIN THE PROJECT

Project director/manager and LHCb-Romania Team Leader

## WORK EXPERIENCE

From 8.06.2012 to present

## Researcher and Project Director

at IFIN-HH with tasks:

1. LHCb activities of data analysis, PhD and Master student coordinator at IFIN-HH, and other research tasks, including outreach and technical expertise;
2. Management of PN-II-ID-PCE-2011-3-0749 project contract 56/07.10.2011, title "Studies of Flavour Production Mechanisms in the pp Interaction" <http://www.nipne.ro/dpp/Collab/LHCb/idei/index.html> since May 2013 to December 2016;
3. Management of PN-II project for Romania-CERN „Capacitati Modulul III” contract no. 03/03.01.2012, title "LHCb - from strangeness to b hadron physics and beyond"
4. Activities within DFPE Department from IFIN-HH;
5. Team Leader and LHCb Collaboration Board Representative from IFIN-HH

From 1.01.2011 to 8.06.2012

## Guest Researcher

Max Planck Institut fuer Kernphysik Heidelberg:

1. LHCb activities of data analysis
2. LHCb technical and computing and Monte Carlo work

From 1.11.2009 to 31.12.2010

## Post-Doctoral fellowship

Max Planck Institut fuer Kernphysik Heidelberg:

1. Work on LHCb data analysis;
2. Technical aspects of LHCb Inner Tracker software alignment.

From 1.04.2009 to 31.10.2009

## Guest Researcher

Max Planck Institut fuer Kernphysik Heidelberg

1. Implementing the Alignment of LHCb Inner Tracker using tracks from LHCb early data and Monte Carlo samples.

## WORK EXPERIENCE

From 1.02.2005 to 31.03.2009 Employment at Max-Planck-Institut fuer Kernphysik (MPI-K) with Max Planck Society **doctoral fellowship** with involvement in:

1. Hera-B collaboration and CosmoALEPH in data analyses
2. MPI-K Hera-B Cluster and Hera-B software administrative tasks
3. LHCb analyses and LHCb Inner Tracking alignment task – method, algorithm development and implementation.
4. Teaching assignment for one full academic year - Advance Laboratory classes: "Stoßionisation von Atomen" – or atomic ionization with electron collisions.

From 1.07.2001 to 10.12.2001 **Researcher**  
Rutherford Appleton Laboratory with partial coverage from a DAAD scholarship.  
Tasks: 1. SNO data analysis and Monte Carlo simulation  
2. Pattern recognition testing

From 1.12.2000 to 31.11.2004 **Research assistant and scholarship**  
Siegen University Germany - several months-spanning contracts and scholarships, in parallel with preparation for "Diplom Physiker" grade,  
Tasks: CosmoALEPH data analysis and Monte Carlo studies.

## EDUCATION AND TRAINING

From 1.11.2009 to 31.12.2010 **Post Doctorat fellowship** Level 8  
Max-Planck-Institut fuer Kernphysik Heidelberg and LHCb  
High Energy Physics and Experimental Physics

From 1.02.2005 to 20.04.2009 **Doctor of science - Doctor rerum naturalium** Level 8  
Ruprecht-Karls-Universität Heidelberg  
High Energy Physics and Experimental Physics

From 1.12.2000 to 26.08.2004 **Diplom Physiker** Level 7  
Astrophysics and High Energy Physics

From 1.10.1999 to 31.09.2000 **"Diploma de studii aprofundate"**  
University "Politehnica" Bucharest - Computing and Lasers

From 1.10.1994 to 31.09.1999 **Physics Engineer Diplom**  
University "Politehnica" Bucharest - Physics  
**Exchange student** "Rijksuniversiteit" University of Groningen, Netherlands,  
"Ecole Polytechnique" Paris, France, "European Mobility Scheme  
for Physics Students" with Tempus grant, plus International Program  
coverage through X.

## PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	B2	B2	B2	B2	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

## Communication skills

Extended international experience abroad, communicating with various academic and students from all over the globe and from a plethora of cultures.  
 Knowledge on a large range of physics subjects experimental/theoretical/applied: high energy, astrophysics, theoretical quantum field, lasers, nuclear, mathematic-physics, condense matter, etc.  
 Extensive experience in reporting and advertising scientific results. Outreach activities for high energy physics community.  
 Extensive experience with various administrative systems.

## Organisational / managerial skills

- Administrating two projects funded with a 1.5 million EURO budget for more than three years.
- Team Leader for 20 member group.

## Job-related skills

Experience with: experimental data processing and analysis methods, calculus, statistical methods, computation methods, team management, resource allocation.

## Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Levels: Basic user - Independent user - Proficient user  
[Digital competences - Self-assessment grid](#)

- Excellent abilities on physics analyses framework, developer of LHCb software algorithms;
- Extended experience with implementing computing and simulation modules for various physics analyses, reconstruction and simulation projects including LHCb projects.

## Other skills

History, Astronomy, mathematics, electronics.

# ADDITIONAL INFORMATION

## Publications

Latest 17 papers

<a href="#">“Observation of the <math>B^0_s \rightarrow J/\psi \Phi \Phi</math> decay</a>	JHEP	20 Jan 2016
<a href="#">Study of <math>D^{(*)} + sJ</math> mesons decaying to <math>D^{*+} K^0 S</math> and <math>D^{*0} K^+ \text{ final states}</math></a>	JHEP	07 Jan 2016
<a href="#">Angular analysis of the <math>B^0_d \rightarrow K^{*0} \mu^+ \mu^-</math> decay</a>	JHEP	14 Dec 2015
<a href="#">First observation of the rare <math>B^+ \rightarrow D^+ K^+ \pi^-</math> decay</a>	PRD	08 Dec 2015
<a href="#">Measurements of long-range near-side angular correlations in <math>\sqrt{s_{NN}}=5</math> TeV proton-lead collisions in the forward region</a>	PLB	01 Dec 2015
<a href="#">Search for the lepton-flavour violating decay <math>D^0 \rightarrow e^+ \mu^-</math></a>	PLB	01 Dec 2015
<a href="#">Measurement of forward W and Z boson production in pp collisions at <math>\sqrt{s}=8</math> TeV</a>	JHEP	25 Nov 2015
<a href="#">First observation of the decay <math>D^0 \rightarrow K^- \pi^+ \mu^+ \mu^-</math> in the <math>p_0</math>-<math>\omega</math> region of the dimuon mass spectrum</a>	PLB	28 Oct 2015
<a href="#">Production of associated Y and open charm hadrons in pp collisions at <math>\sqrt{s}=7</math> and 8 TeV via double parton scattering</a>	JHEP	20 Oct 2015
<a href="#">Search for the rare decays <math>B^0 \rightarrow J/\psi \gamma</math> and <math>B^0_s \rightarrow J/\psi \gamma</math></a>	PRD	16 Oct 2015
<a href="#">Evidence for the strangeness-changing weak decay <math>\Xi^- b \rightarrow \Lambda^0 b \pi^-</math></a>	Phys. Rev. Lett. 115 (2015)	13 Oct 2015 241801
<a href="#">A model-independent confirmation of the <math>Z(4430)^-</math> state</a>	PRD	07 Oct 2015
<a href="#">Measurements of prompt charm production cross-sections in pp collisions at <math>\sqrt{s} = 13</math> TeV</a>	JHEP	06 Oct 2015
<a href="#">Model-independent measurement of mixing parameters in <math>D^0 \rightarrow K^0 S \pi^+ \pi^-</math> decays</a>	JHEP	06 Oct 2015
<a href="#">Measurement of the forward-backward asymmetry in <math>Z/\gamma^* \rightarrow \mu^+ \mu^-</math> decays and determination of the effective weak mixing angle</a>	JHEP	25 Sep 2015
<a href="#">Studies of the resonance structure in <math>D^0 \rightarrow K^0 S K^\pm \pi^\mp</math> decays</a>	PRD	22 Sep 2015

Forward production of Y mesons in pp collisions at  $\sqrt{s}=7$  and 8TeV

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#### ANNEXES

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- Hirsch index of 30 from Web of Science and h-HEP (without self citations) of 45 from INSPIRE
  - copies of degrees and qualifications;
  - testimonial of employment or work placement;
- Full list of publication of Dr. Rer. Nat. Florin MACIUC available on demand  
Upper publication list copied from LHCb official site  
[http://lhcbproject.web.cern.ch/lhcbproject/Publications/LHCbProjectPublic/Summary\\_all.html](http://lhcbproject.web.cern.ch/lhcbproject/Publications/LHCbProjectPublic/Summary_all.html)  
plus the non LHCb papers, most retrievable from <http://inspirehep.net/author/profile/F.Maciuc.1> .