Sergey Barsuk: CURRICULUM VITAE

Laboratoire de l'Accélérateur Linéaire (LAL, www.lal.in2p3.fr), IN2P3-CNRS & Paris-Sud University, bldg.208, 91898 Orsay

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Degrees

1997 Institute for Theoretical and Experimental Physics, **Ph.D.**

Ph.D. thesis: "Study of D0-meson decays into final states with two kaons" (ARGUS experiment)

2014 Paris-Sud University, **HDR** (Habilitation to direct the research)

HDR thesis: "Construction of the electromagnetic calorimeter detector and study of charmonium production using hadronic final states in the LHCb experiment"

Position

1997-1999	ITEP, Moscow, Researcher
1999-2006	ITEP, Moscow, Senior Researcher
2003-2005	CERN, Geneva, Scientific Associate
2005-2006	LAL, Orsay, Foreign visitor
2006-2016	LAL, Orsay, Senior Researcher (Chargé de Recherche 1 cl.)
2016-	LAL, Orsay, Research Director (Directeur de Recherche 2 cl.)

Teaching

1997-2000	Moscow Institute of Physics and Technology, Master students, Particle physics, 120 h/year
2007-present	Kyiv University-KINR, or Kharkiv University-KIPT, Bachelor and Master students, High energy physics, 10 h/year
2007-present	Pedagogical team and organisation committee of the TESHEP school, http://events.lal.in2p3.fr/TES-HEP/index-

SummerSchools.html), students of Master and Ph.D. level

2009-2012, 2017 Lecture series « Instrumentation for high energy physics », TESHEP summer school, 3-5h/year (published lectures)

2010-2013 Lecture series « Instrumentation » for students of Master 2 NPAC at Paris-Sud University, 15h/year

Lecture series « Flavour physics », TESHEP summer school, 3h

Lecture series « Instrumentation for high energy physics » - 4h, « Flavour physics » - 5h, CQUPT University.

Administration related activities

2007-2012 and 2014-present

Jury for Scholarships of the French Embassy in Ukraine at the Center for Scientific and University cooperation.

2007-2011 Member of the laboratory Council of LAL.

Expertise

- Flavour physics, data analysis
- o Instrumentation for high energy physics: gaseous detectors, electromagnetic calorimeter, photon detectors
- o R&D on instrumentation, nuclear physics and radiotherapy using accelerator beams

Experiments/projets

ARGUS (DESY), high energy physics (1993-1995)

HERA-B (DESY), high energy physics (1994-1999)

LHCb (CERN), high energy physics (1999-present)

LEETECH (LAL), experimental platform (2012-2017)

RD51 (CERN), gaseous detectors (2013-present)

PRAE (LAL-IPN-IMNC), R&D for nuclear physics, radiotherapy and instrumentation with electron beams (2015-present)

Research related activities

2012-2017

2013-present

2013-present 2014-2016

2015-present

Research related activities		
2007	Review panel for design of the ECAL for the ALICE experiment at CERN	
2007-present	Pedagogical team and organisation committee of TESHEP (Trans European School for High Energy Physics, http://events.lal.in2p3.fr/TES-HEP/index-SummerSchools.html), students of Master and Ph.D. thesis level	
2010-present	Internal referee of the LHCb experiment	
2012-2013, 2016 Topic convenor of the IEEE conference (selection of contributions, organisation of the sessions), « Photon detectors » and « Radiation imaging detectors »		
2012-present	Reviewer at the IEEE conference	
2013	Organisation of the workshop "New results on charmonium production and decays" at LAL, March 6-8, http://events.lal.in2p3.fr/workshop-charmonium/	
2013	Organisation of the workshop "LAL-Ukraine workshop on instrumentation developments" at LAL, May 22-24, https://indico.lal.in2p3.fr/event/2125/timetable/#20130522	
2014	Organisation of the workshop "French-Ukrainian workshop on instrumentation development for high energy physics" at LAL, October 1-3, http://events.lal.in2p3.fr/French-Ukrainian-Workshop/	
2014	Organisation of the conference "90 Years Anniversary of Georges Charpak Birth (Bringing Nations Together Through Science)" at the Polytechnic University of Lviv, July 21, https://indico.cern.ch/event/331478/overview	
2014-present	Reviewer of the JHEP journal	
2015-present	Reviewer of the JINST journal	
2015	Referee of the Ph.D. thesis of Liang Zhong (Tsinghua University, China)	
2015	Internal referee of the Technical Proposal of the SHIP projet at CERN, chapter Particle Identification	
2015	Organisation of the workshop "New Possibilities in Physics of Quarkonia" at the Institute Henri Poincaré, September 24-25, http://indico.in2p3.fr/e/onia2015/	
2015	Organisation of the workshop "French-Ukrainian workshop on instrumentation development for high energy physics" at LAL, October 15-16, http://french-ukrainian-workshop-2015.lal.in2p3.fr/	
2016	Organisation of the workshop "French-Ukrainian winter workshop on Medical Physics" in Kyiv, Ukraine, March 3-4, http://science.univ.kiev.ua/french-ukrainian/index.html	
2016-present	International Advisory Committee of the NDIP conference	
2016	Organisation of the workshop "French-Ukrainian workshop on instrumentation development for high energy physics" at LAL, October 19-21, http://french-ukrainian-workshop-2016.lal.in2p3.fr/	
2017	Organisation of the workshop "Medical physics and imaging" in Kharkiv, Ukraine, April 20-21, http://fcuw.univer.Kharkov.ua	
2017	Organisation of the workshop "Charmonium production at LHCb" at CERN, June 16, https://indico.cern.ch/event/640756/	
2017	Organisation of the workshop "French-Ukrainian workshop on instrumentation development for high energy physics" at LAL, November 6-8, http://french-ukrainian-workshop-2017.lal.in2p3.fr/	
International cooperation		
2014-present	Responsible of the relations with Ukraine at Paris-Sud University	
2014-2015	Project manager of the PICS project (France-Ukraine), « Development of the instrumentation for experiments at accelerators, beam monitoring and other applications »	
2015-present	Director (France) of the International Associated Laboratory (France-Ukraine), « Instrumentation developments for experiments at accelerator facilities and accelerating techniques »	
2017-present	Contact person for international relations at LAL for Paris-Sud University	
Research related administration, responsibilities		
1999-2002	Coordinator of the test beam for the electromagnetic calorimeter of the LHCb experiment at CERN	
2002-2005	Coordinator of the installation and integration of the electromagnetic calorimeter for the LHCb experiment at CERN	
2000-2006	Group leader deputy of the LHCb-ITEP group	
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Project leader of the LEETECH project (CERN – IFRU – LAL – Université de Kiev)

Director (France) of the International Associated Laboratory LIA (France-Ukraine)

LAL contact of the IN2P3 network « gaseous detectors »

Project manager of the PICS project (France-Ukraine)

Group leader of the RD51-LAL group

2015-present Project coordinator of the PRAE project (IMNC – IPNO – LAL)

2018-present Group leader of the Instrumentation group at LAL

Supervising of Ph.D. students

V. Iakovenko, co-chaired thesis LAL/ Paris-Sud University - KINR/ National University of Kyiv, Ph.D. thesis defended in 2010.

M. Teklishyn, Ph.D. thesis defended in 2014.

V. Krylov, co-chaired thesis LAL/ Paris-Sud University - National University of Kyiv, Ph.D. thesis defence foreseen in 06/2018.

A. Usachov, Ph.D. thesis defence foreseen in 2019.

Publications: More than 450 articles in peer-reviewed journals (mostly publications signed by large collaborations).