

Curriculum vitae **Sergey Barsuk, IJCLab Orsay**

Sergey Barsuk, born 22/05/1971 in Kyiv, 52 years old, married, two children.

Address :

Laboratoire de Physique des 2 Infinis Irène Joliot Curie (IJCLab, www.ijclab.in2p3.fr), CNRS, Paris-Saclay and Paris Universities, bldg. 208, 91898 Orsay France

Tel. : +33 (0)1 64 46 89 84, email : sergey.barsuk@lal.in2p3.fr

CERN, CH-1211, CERN-Meyrin, bldg. 1-R-001

Tel. : +41 (0)22 767 23 35, email : sergey.barsuk@cern.ch

Degrees :

M.Sc. in Moscow Institute of Physics and Technology, 1994

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

Study of D⁰-meson decays into final states with two kaons (ARGUS experiment)

Habilitation à diriger des recherches HDR in Paris-Sud University, 2014

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

Position :

- CNRS Research Director 2 cl. at IJCLab, 2016-present
- CNRS CR1 at LAL, Orsay, 2006-2015
- Foreign visitor at LAL, Orsay, 2005-2006
- Research associate at CERN, 2003-2005
- Senior researcher at ITEP, Moscow, 1999-2006
- Researcher at ITEP, Moscow, 1997-1999
- PhD student at ITEP, Moscow, 1993-1997

Expertise : high-energy-physics, instrumentation, medical physics

- Flavour physics and QCD, data analysis and phenomenology
- Instrumentation for high-energy physics : gaseous detectors, electromagnetic calorimeters, Cherenkov light detectors, photon detectors
- R&D on instrumentation for nuclear physics and radiotherapy using accelerator beams

Experiments and projects :

- High Energy Physics (data analysis, instrumentation, phenomenology) : ARGUS (DESY), HERA-B (DESY), LHCb (CERN)
- Instrumentation : HERA-B (DESY), LHCb (CERN), LEETECH (LAL-IRFU-CERN-TSNUK), RD51 (CERN), PRAE (LAL-IPN-IMNC)
- Nuclear and medical physics : PRAE (LAL-IPN-IMNC)

Expert boards, convenorships, reviewing :

- Topic convenor at IEEE conferences : Photon detectors, Radiation imaging detectors, 2012 - 2016
- International Advisory Committee of the NDIP conference, 2016 - 2018
- Editorial Board of the LHCb experiment (CERN), 2019 - 2021
- Academic accreditation panel for Institute for Applied Physics NASU (Sumy), 2020

- Review panel for design of ECAL for ALICE experiment (CERN), 2007
- LHCC review panel for BRIL, CMS experiment (CERN), 2021
- Internal referee of the Technical Proposal of the SHIP project (CERN), 2015
- Reviewer at IEEE conferences, 2012 - present
- Reviewer at JHEP and JINST journals, 2014 - present
- Internal referee of the LHCb experiment, 2010 - present

Research management, project coordination :

- Coordinator of test beam, installation and integration of ECAL LHCb (CERN)
- Project leader of luminometer PLUME for LHCb run 3 (Orsay-Bologna-Lausanne-Kyiv-CERN)
- PRAE project (IMNC-IPNO-LAL), project leader
- LEETECH project (CERN-IFRU-LAL-Kyiv U), project leader
- Ile-de-France regional project SESAME, project leader
- Topical and emblematic projects of LabEx P2IO

Team leaderships :

- Responsible of Instrumentation group at LAL, 2018-2019
- Team leader RD51-LAL, 2013-2019
- Deputy team leader of LHCb-ITEP, 2000-2005
- Deputy team leader of LHCb-LAL, 2016-2019
- Deputy team leader of LHCb-IJCLab, 2020-2023
- Team leader of LHCb-IJCLab, 2023-present

International cooperation :

- Project manager of PICS project (France-Ukraine, 2014-2015)
- Director (France) of International Associated Laboratory LIA/IRP IDEATE (France-Ukraine, 2015-present)
- Project leader of three Erasmus+ MIC projects between Paris-Sud (now Paris-Saclay) University and Ukraine (2018-present)
- Project leader of two Erasmus+ MIC projects between Paris-Saclay University and Georgia (2020-present)
- Project leader of two Erasmus+ MIC projects between Paris-Saclay University and Colombia (2020-present)
- Project leader of several PRC projects
- Jury for French Embassy scholarships, 2007-2019

Teaching :

- Lecturing at Moscow Institute of Physics and Technology (MIPT), 1997-2000
- Lecturing at M2 NPAC, Paris-Sud University, 2010-2013
- Annual lecture series at international summer and winter schools
- Supervisor of 6 Ph.D. students, referee and/or jury member for 10 Ph.D. and HDR theses
- Supervisor of 10 research internships, more than 40 students' internships

Conferences : invited plenary and/or overview presentations at major international conferences.

Publications :

About 700 articles in peer-reviewed journals (mostly publications signed by large collaborations); more than 60,000 citations.