

# Andrej Liptaj

## Curriculum vitæ

Institute of Physics  
Slovak Academy of Sciences  
Dúbravská cesta 9  
Bratislava 845 11, Slovakia  
☎ + 421 2 59410 508  
✉ andrej.liptaj@savba.sk

---

## Personal data

Born  
Marital status

**9. April 1980**, Prešov, Slovakia.  
**Married**, 3 children.

---

## Education

- |           |   |
|-----------|---|
| 2003–2010 | <b>PhD.</b> in Nuclear and Subnuclear physics; Institute of Physics, Slovak Academy of Sciences, Bratislava and Faculty of Mathematics, Physics and Informatics, Comenius University, Bratislava. |
| 2005–2008 | <b>Dr. rer. Nat.;</b> DESY group, Max Planck Institute for Physics, Munich, Germany and The University of Hamburg, Germany.   |
| 1999–2004 | <b>Ing.</b> (M.sc.) in Economic Informatics; Faculty of Economic Informatics, University of Economics in Bratislava.  |
| 1998–2003 | <b>Mgr.</b> (M.sc.) in Physics; Faculty of Mathematics, Physics and Informatics, Comenius University, Bratislava.   |
| 2008–2014 | Final certificate in Accordion Playing, Primary art school Exnárova, Bratislava.  |
| 1998      | State language exam certificate, French language, State language School, Palisády, Bratislava.  |
| 1995–1998 | <b>Graduation</b> (baccalauréat), specialization: natural sciences, mathematics. Lycée Général Blaise Pascal, Clermont-Ferrand, France.   |
| 1994–1995 | French bilingual high school, Gymnázium Metodova, Bratislava.   |
| 1990–1994 | Mathematics oriented primary school, Košická, Bratislava.   |

---

## Diploma theses

Title	Unitary and analytic model of electromagnetic and strange transition form factors of pseudoscalar mesons.
Supervisor	RNDr. S. Dubnička, DrSc.
Defended	6. May 2003.
<hr/>	
Title	Algorithmization of some selected mathematical models of economic processes.
Supervisor	Ľubomír Turňa RNDr. CSc.
Defended	6. June 2004.

---

## Doctoral theses

Title	Study of Charm Quark Fragmentation into $D^*$ Mesons with the H1 Detector at HERA II.
Supervisor	Dr. Günter Grindhammer.
Defended	16. December 2008.
<hr/>	
Title	Analytic and unitary approach in applications of electromagnetic meson form factors.
Supervisor	RNDr. S. Dubnička, DrSc.
Defended	29. November 2010.

---

## Employment history

2014 -	<b>Researcher</b> , <i>IP SAS</i> , Bratislava. Researcher at Institute of Physics, Slovak Academy of Sciences. Investigation of theoretical problems in phenomenology of particle physics.
2010 - 2014	<b>Postdoc</b> , <i>IP SAS</i> , Bratislava. Postdoc at Institute of Physics, Slovak Academy of Sciences, Schwartz's Fund.
2008 - 2010 and 2003 - 2004	<b>PhD. student</b> , <i>IP SAS</i> , Bratislava. PhD. student at Institute of Physics, Slovak Academy of Sciences. Degree from the Faculty of Mathematics, Physics and Informatics, Comenius University in Bratislava.
2005 - 2008	<b>PhD. student</b> , Max Planck institute for Physics, Munich, Germany, work place in DESY, Hamburg. Degree from the Hamburg University.

---

## Working stages

3 months 2015	BLTF, JINR, Dubna, Russia.
3 months 2014	BLTF, JINR, Dubna, Russia.
3 months 2013	BLTF, JINR, Dubna, Russia.
3 months 2012	BLTF, JINR, Dubna, Russia.
6 months 2010	CERN, Geneva, Switzerland.

---

## Language skills

Slovak language	<b>native speaker.</b>
English language	<b>fluently.</b>
French language	<b>fluently.</b>
Russian language	<b>intermediate.</b>
German language	<b>intermediate.</b>

---

## Professional qualification

Physics	Quantum electrodynamics, Quantum field theory, Standard model.
Area of interest	Phenomenology of particle physics, lepton anomalous magnetic moments, electromagnetic form factors of hadrons, heavy quark fragmentation, covariant quark model, numerical mathematics.

---

## Computer Skills

Text/presentation	LaTeX, Lyx, Libreoffice, typ03.
Scientific Programming	Mathematica, WxMaxima, Gnu Octave, form (Nikhef). Java, C++, Python.

---

## Awards

3rd place 2015	Competition of scientific works of young physicists organized by the Slovak Physical Society.
3rd place 2011	Competition of scientific works of young physicists organized by the Slovak Physical Society.
2011	Award of the president of the Slovak Republic for “contribution to the scientific knowledge and to the development of science in Slovakia in the domain of physical sciences.”

---

## Personal interests

Sport (cycling, swimming, cold water swimming, hiking, running), accordion, computer games.