

# Curriculum Vitae

## Personal

Name: **Zhirayr Avetisyan**

Date and place of birth: September 24, 1986, Yerevan, Armenia

Citizenship: Armenia

Marital status: single

Address (home): Davtashen-1, 13-30, Yerevan, 0054, Armenia

Permanent position: Junior Researcher, Yerevan State University, Department of Theoretical Physics, Alex Manoogian St., 1, Yerevan 0025, Armenia

Telephones: (+374)10-369296 (home,Armenia)  
(+374)91-551741(cell, Armenia)

E-mails: jirayrag@gmail.com

Languages spoken : Armenian, Russian, English, German

## Education and degrees

since 2013 Junior Researcher, Yerevan State University,  
Department of Theoretical Physics

2013 PhD, Max Planck Institute for Mathematics in the Sciences, Leipzig University  
**Thesis:** "Mode decomposition and Fourier analysis of physical fields in homogeneous cosmology"  
Adviser: Professor R. Verch

2009-2013 PhD student, Max Planck Institute for Mathematics in the Sciences

2010 MSc, Yerevan State University  
**Thesis:** "Homogeneous isotropic states of electromagnetic field on FRW spacetimes.  
Construction of states of low energy"  
Adviser: Professor E. Chubaryan

2008 - 2010 master student, Department of Theoretical Physics, Yerevan State University

2008 BSc, Yerevan State University  
**Thesis:** "Investigation of dynamics and stability of recombination phenomenon in evolution  
using methods of theoretical physics"  
Adviser: Professor D. Saakian

2004 - 2008 undergraduate student, Yerevan State University, Faculty of Physics, Yerevan.

## **Present and past interests of research**

- Quantum Field Theory in Curved Spacetimes
- Harmonic and Spectral Analysis
- Geometrical and functional analytical aspects of theoretical physics

## **Computer Skills**

- Programming Languages  
C/C++/Java/Delphi
- Operating Systems  
Windows
- Web  
HTML , Javascript , CSS, PHP, Flash/ActionScript 3.0, JSP

## **Awards, Prizes**

- Annual prize "Best Student in IT sphere" by the president of RA, 2006
- Annual prize "YSU Best Student", Faculty of Physics, 2008
- First prize and diploma for best result in practical exam, International Astronomy Olympiad (Sweden, 2003)
- Second prize, International Astronomy Olympiad (Crimea, Ukraine, 2001)
- Third prize, International Astronomy Olympiad (Russia, 2002)
- Bronze medal, International Physics Olympiad (Korea, 2004)
- Two winner diplomas, Math-Phys Olympiads of PhysTech University (Moscow, Russia 2004)
- Finitely many prizes in the local physics, astronomy, geography, programming olympiads

## **Conferences, Workshops, Schools**

- DPG Spring Conference, Theoretical and Mathematical Foundations of Physics, Jena, Germany, 2013  
Title: Mode decomposition and Fourier analysis of physical fields in homogeneous cosmology