Bijan Chokoufe Nejad

Education

2014–2016 **Doctoral Studies (Dr. rer. nat.)**, *DESY Hamburg / University of Würzburg*.
Joint venture with the research center DESY of the Helmholtz society for the futher development of WHIZARD and O'MEGA.

2011–2013 **Master of Science with Honors in Physics**, *University of Würzburg*, 1.1.
Chosen for the graduate program FOKUS Physik of the elite network of Bavaria.
Graduating in more than one semester shortened period of study.

2009–2012 **Bachelor of Science in Physics**, *University of Würzburg*, 1.2.
Switched in the second semester from nanostructure technology to physics, to get a deeper understanding of the underlying mathematical and theoretical structures of nature.
Compressed studies, partly with lectures in the semester break, to prepone master lectures.

2008–2009 **Military duty**, *Bundeswehr*, Weissenfels, Horb a.N. and Kempten.
Special training for CBRN defense in the Joint Medical Service.

2002–2008 **Abitur**, *Schiller-Gymnasium*, Pforzheim, 1.0.
Class representative from 10th to 13th grade.
Local physics price of the DPG for outstanding achievements.

Doctoral thesis

title *Resummation of Soft Radiation from Heavy Particles in Monte Carlo Event Generators*
supervisor Prof. Dr. T. Ohl and Dr. J. Reuter

Master thesis

title *Numerical Calculation of Multi-Jet Cross Sections*
supervisor Prof. Dr. T. Ohl

Improvement of existing calculations by means of a virtual machine in Fortran as well as refined Monte Carlo techniques for the multi purpose event generator WHIZARD.

Bachelor thesis

title *Landau levels in bilayer quantum spin Hall systems*
supervisors Prof. Dr. B. Trauzettel and Dr. P. Michetti

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Analytic calculation of the energy levels which occur in the presence of strong magnetic fields for double layer topological insulators.

Experience

2013 **Teaching assistant**, *University of Wuerzburg*.
Undergraduate lectures in theoretical mechanics and quantum mechanics.

March–April 2013 **Research internship**, *Max Planck Institute for Physics*, Munich, Dr. Thomas Hahn.
Implementation of check-pointing in C for the CUBA library which offers different methods for multidimensional numerical integration.

April–June 2009 **Internship**, *Fraunhofer Institute for Interfacial Engineering and Biotechnology*, Stuttgart.
Production and analysis of dispersions of carbon nanotubes as well as buckypaper.

Seminars

November 2012 **Workshop on goal and value oriented self management**, *Elite network of Bavaria*, Stein.

September 2012 **Summer School on Efficient Algorithms in Computational Physics**, *DPG Conference Center*, Bad Honnef.

September 2012 **Summer University on Plasma Physics and Fusion Research**, *Max Planck Institute for Plasma Physics*, Garching.

Languages

German **Native**
English **Very good**
French **Basic**

Computer skills

Languages C, Fortran95/2003, Python, O'Caml, Java
Software Mathematica, Matplotlib, LaTeX, Inkscape, MS Office
OS Linux, Windows XP, Vista, 7

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