

## **Dr. Andreas Ringwald**

born 8 December 1958

- 1980 – 1985 Study of physics at the University of Heidelberg, Germany. Diploma thesis about “Entropy production, reheating and baryogenesis in the inflationary universe” under supervision of Prof. Dr. Michael G. Schmidt.
- 1985 – 1988 Postgraduate studies at the University of Heidelberg, Germany. PhD thesis about “Quantum field theory and the early universe” under supervision of Prof. Dr. Michael G. Schmidt.
- 1988 – 1990 Postdoctoral fellow at the Deutsches Elektronen-Synchrotron DESY, Hamburg, Germany. Work on electroweak baryon- and lepton-number violation at high temperatures and high energies.
- 1990 – 1991 Fellow at CERN, Geneva, Switzerland. Work on theory (with Valentin V. Khoze) and phenomenology (with Fridger Schrempp and Christof Wetterich) of electroweak instanton-induced baryon- and lepton-number violating processes at very high energies.
- 1991 – 1993 Junior staff member at CERN, Geneva, Switzerland. Work on signatures of electroweak instanton-induced processes in cosmic rays (with Duncan A. Morris) and Monte-Carlo-simulations of these processes at future accelerators (with Bryan Webber and collaborators).
- since 1994 Staff member at the Deutsches Elektronen-Synchrotron DESY, Hamburg, Germany. Work on theory and phenomenology of QCD-instanton induced, chirality-violating processes at HERA (with Fridger Schrempp). Work on ultrahigh-energy cosmic neutrinos and physics beyond the Standard Model, partly in collaboration with Zoltan Fodor and collaborators. Work on noncommutative extensions of the Standard Model (with Valentin Khoze and collaborators). Work on non-accelerator particle physics opportunities at DESY, in particular exploiting free-electron lasers. Work on the theory and phenomenology of axions and other very weakly interacting slim particles beyond the standard model. Initiating the ALPS and WISPDMX experiment at DESY and the SHIPS Helioscope at the Hamburg Observatory.

- 2006-2009 Elected Member of the German Committee for Elementary Particle Physics KET
- 2010-2012 Member of the Executive Board of the Collaborational Research Center SFB 676 Particles, Strings, and the Early Universe at Hamburg University
- 2010-2012 Member of the Forschungsgremium of Landesexzellenzinitiative Hamburg “Connecting Particles with the Cosmos”
- since 2007 Editor of Physics Letters B (Elsevier, The Netherlands)
- since 2007 Co-Spokesperson of the ALPS experiment at DESY
- since 2008 Visiting Professor in the Institute of Particle Physics Phenomenology, Durham University, Durham, UK
- since 2010 Co-Spokesperson of the SHIPS Helioscope at the Hamburg Observatory
- since 2010 Elected Member of the Scientific Board of DESY
- since 2013 Head of the ALPS group at DESY
- since 2013 Invited Member of the Particle Data Group