

PROF. DR. RER. NAT. HABIL. **EBERHARD WIDMANN**



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Interest Studying fundamental symmetries and interactions:
Precision studies of CPT symmetry and QED in antihydrogen and antiprotonic helium,
strong interaction in hadronic atoms and exotic kaon-nucleon/nucleus bound states,
meson spectroscopy and in-medium effects of mesons at BELLE and PANDA.

Personal data

1960 born in Eschenau, State Baden-Württemberg, Federal Republic of Germany.
Married, 2 children.

Academic career

- 1979 – 1985** Study of physics at the University of Stuttgart, Germany.
- 1985 – 1986** Experimental diploma thesis work at the Max-Planck-Institute for Metals Research (MPI), Stuttgart on pion-muon channeling experiments carried out at Paul Scherrer Institute (PSI), Villigen, Switzerland.
- 1986** Diplom-Physiker (equivalent to Masters degree), University of Stuttgart
- 1986 – 1990** Ph. D. work at the MPI Stuttgart. Subject: *Search for Positron Electron Scattering Resonances in the MeV Region* using the mono-energetic positron beam available at MPI Stuttgart under Profs A. Seeger, K. Maier, and F. Bosch (GSI).
- 1990** Dr. rer. nat (Dr. of Science, equivalent to Ph. D.) "mit Auszeichnung" (maxima cum laude) in experimental physics, University of Stuttgart.
- 1999** Dr. rer, nat, habil. Habilitation in Experimental Physics at the Physics Department of the Technische Universität München. Subject: *Experimental Studies of the Metastability of antiprotonic Helium*.
- 2006** Honorary professor for subatomic physics, University of Vienna.

Scientific Positions

- 1990 – 1993** JSPS Post Doctoral Fellow at the Institute for Nuclear Study, University of Tokyo (Japan), with Prof. T. Yamazaki.
- 1993 – 1996** Fellow at the European Laboratory for High Energy Physics (CERN) in Geneva
- 1996 – 1997** Project Associate of the PS205 collaboration at CERN.
- 1997 – 1998** STA-Fellow at the Muon Science Laboratory, RIKEN, Saitama, Japan, with Prof. K. Nagamine.
- 1998** Project Associate of the ASACUSA collaboration at CERN and visiting researcher in the group of Prof. R.S. Hayano at the Physics Department of the University of Tokyo. Project Leader for the laser and microwave spectroscopy experiments on antiprotonic helium. Member of the ASACUSA steering committee.
- 1999** Senior Project Associate, ASACUSA collaboration.
- 2004** Director of the Stefan Meyer Institute for Subatomic Physics, Austrian Academy of Sciences, Vienna.

Awards

- 2011** ERC Advanced Grant “HFS - Hyperfine Structure of Antihydrogen”.
- 1990** Ph.D. award “mit Auszeichnung” (“with distinction”, maxima cum laude), University of Stuttgart.

Responsibilities in International Collaborations

- ASACUSA** Atomic Spectroscopy And Collisions Using Slow Antiprotons at CERN-AD
leader of spectroscopy group, member of the steering committee
- FLAIR** Facility for Low-energy Antiproton and Ion Research at the future FAIR facility at Darmstadt
spokesperson

Membership of Review Panels and Committees

- Incoming chairman of the Division of Particle and Nuclear Physics (FAKT) of the Austrian Physical Society (ÖPG).
- Chairman of the “Institutsdirektorenkonferenz”, the assembly of directors of institutes of the Austrian Academy of Sciences
- External Counselling Body of the Institute of Nuclear Research (ATOMKI, Debrecen) and the KFKI Research Institute of Particle Physics (Budapest) of the Hungarian Academy of Sciences
- Canada Research Chairs Program College of Reviewers
- GSI G-PAC (General program advisory committee, GSI Darmstadt) 2004-2009
- Austrian representative in NUPECC (Nuclear Physics European Collaboration Committee, ESF), member of the steering committee for the Long Range Plan 2010 in charge of working group 5 „Fundamental interactions and symmetries“.
- Austrian representative in the Scientific and Technical Issues (STI) committee of the FAIR facility, Darmstadt.
- Editorial board of the journal Hyperfine Interactions (Springer).
- Referee for Physics Letters B, Nuclear Instruments and Methods A, European Physical Journal D, DFG, NSF, GACR.

Member of the International Advisory Committee or Organizer of the Following Conferences and Workshops

- EXA – Exotic Atoms and Related Fields, Vienna.
- LEAP – Low Energy Antiproton Physics.
- INPC - International Nuclear Physics Conference
- MENU - International Conference on Meson-Nucleon Physics and the Structure of the Nucleon
- TCP - Trapped Charged Particles and Fundamental Physics.
- MESON - International Workshop on Meson Production, Properties and Interaction, KRAKÓW, POLAND.
- Topic area member of CLEO/Europe-EQEC 2011 Conference
- Exotic Hadronic Atoms, Deeply Bound Kaonic States and Antihydrogen: Present Results, Future Challenges: Workshop on ECT*, Trento, June 2006.