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## Curriculum Vitae Professor Dr. Anton Zeilinger



**Name:** Anton Zeilinger  
**Born:** 20 May 1945, Ried, Austria

**Major Scientific Interests: Quantum Physics, Teleportation**

### Academic and Professional Career

- since 2004 Director, IQOQI Vienna, Institute for Quantum Optics and Quantum Information, Austrian Academy of Sciences, Vienna, Austria
- since 1999 Full Professor of Experimental Physics, University of Vienna, Austria
- 1990 - 1999 Full Professor of Experimental Physics, University of Innsbruck, Austria
- 1988 - 1989 Full Professor of Physics, Technical University of Munich, Germany
- 1983 - 1990 Associate Professor, Vienna University of Technology, Austria
- 1981 - 1983 Associate Professor of Physics, M.I.T. (Visiting), USA
- 1979 - 1983 Assistant Professor, Institute of Atomic and Subatomic Physics Vienna, Austria
- 1979 Habilitation, Vienna University of Technology, Austria
- 1977 - 1978 Research Associate (Fulbright Fellow) at M.I.T. in the Neutron Diffraction Laboratory under Prof. C.G. Shull (Nobel Laureate 1994), USA
- 1972 - 1979 Research Assistant, Institute of Atomic and Subatomic Physics Vienna, Austria with Professor Helmut Rauch
- 1971 Ph.D., University of Vienna, Austria; thesis on "Neutron Depolarization in Dysprosium Single Crystals" under Prof. H. Rauch

1963 - 1971 Study of Physics and Mathematics, University of Vienna, Austria

### **Functions in Scientific Societies and Committees (Selection)**

since 2013 President, Österreichische Akademie der Wissenschaften

since 2009 President, International Academy Traunkirchen, Austria

since 2008 Member, Planning and Strategy Committee of the Austrian Academy of Sciences

since 2006 Vice Chair, Board of Trustees, Institute of Science and Technology of Austria

since 2006 Member, Executive Board, Institute of Science and Technology of Austria

2006 - 2009 Dean of the Faculty of Physics, University of Vienna, Austria

2006 - 2008 Member, Editorial Board, New Journal of Physics

since 2004 Scientific Director, Institute of Quantum Optics and Quantum Information Vienna, Austrian Academy of Sciences

2002 - 2003 Member, Founding Convent, University of Vienna, Austria

2002 Initiator of a new Postgraduate Research Institution which has been implemented as Institute of Science and Technology in Austria

1997 - 1998 President, Austrian Physical Society

1996 - 1998 Member, Quantum Electronics and Optics Division, European Physical Society

1994 - 2000 Member, Editorial Board, Physical Review A

since 1988 Member, Editorial Board, Foundations of Physics

### **Honours and Awarded Memberships (Selection)**

2013 Urania Medal

2013 Großer Tiroler Adler-Orden, Tyrol, Austria

2012 Finalist, World Technology Award for Communications Technology

2012 Fellow, American Assoc. for the Advancement of Science (AAAS)

2011 Full Member, Academia Europaea

2010 Wolf Prize in Physics, Wolf Foundation, Israel

2009 Great Cross of Merit with Star of the Federal Republic of Germany

2009 Foreign Member, Académie des Sciences, Institut de France

2008 ERC Advanced Grant, European Research Council

2008 Quantum Communication Award, Tamagawa University, Japan

- 2008 Inaugural Isaac Newton Medal, Institute of Physics, UK
- 2007 Quantum Electronics Prize, European Physical Society
- 2006 Foreign Member, Serbian Academy of Sciences and Arts
- 2006 Honorary Doctorate, Gdansk University, Poland
- 2006 Grand Gold Decoration, City of Vienna, Austria
- 2005 Wilhelm Exner Medal, Austrian Association for Enterprises
- 2005 Honorary Member, Slovak Academy of Sciences
- 2005 Member, German National Academy of Sciences Leopoldina
- 2005 Honorary Doctorate, Humboldt University Berlin, Germany
- 2005 King Faisal Prize, King Faisal Foundation, Saudi Arabia
- 2005 Descartes Prize, European Commission
- 2004 Lorenz Oken Medal, Society of German Researchers and Physicians, Germany
- 2004 Klopsteg Award, American Association of Physics Teachers, USA
- 2003 Sartorius Prize, Göttingen Academy of Sciences and Humanities, Germany
- 2002 Member, Berlin-Brandenburg Academy of Sciences and Humanities, Germany
- 2002 Johannes Kepler Prize, Science Prize of Upper Austria
- 2001 Decoration of Sciences and Arts (Austrian equivalent to the Order of Merit)
- 2001 Visionary of the Year in Science
- 2001 Order Pour le Mérite for Sciences and Arts, Germany
- 2000 Science Prize, City of Vienna, Austria
- 2000 Member, Academia Scientiarum et Artium Europaea
- 2000 Senior Humboldt Fellow Prize, Alexander von Humboldt Foundation, Germany
- 1999 Fellow, American Physical Society
- 1998 Full Member, Austrian Academy of Sciences
- 1997 European Optics Prize, European Optical Society
- 1997 Kardinal Innitzer Honorary Prize, Vienna, Austria
- 1996 Austrian Scientist of the Year
- 1996 Honorary Professor, University of Science and Technology of China
- 1995 Prix Vinci d'Excellence, Fondation LVMH, Paris, France
- 1994 Corresponding Member, Austrian Academy of Sciences

- 1980 Junior Prize of the Theodor Körner Foundation, Vienna, Austria
- 1979 Prize for Junior Scientists, Kardinal Innitzer Foundation, Vienna, Austria
- 1975 Prize of the City of Vienna for the Encouragement of Young Scientists

### **Major Scientific Interests**

Fundamental investigations in Quantum Physics, experiment and theory

Tests of Quantum Mechanics; Entanglement and Quantum Nonlocality; Coherent Neutron and Atom Optics; Matter Wave Interferometry; Quantum Cryptography; Quantum Communication; Quantum Computation; Quantum Teleportation

Einstein-Podolsky-Rosen Paradox

Decoherence