

Dr. Philip Walther

Date of birth: May 12, 1978 in Vienna, Austria
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Current position

Since 2011 Assistant Professor of Physics (tenure track)
Faculty of Physics, University of Vienna

Professional Career

2008 – 2011 Assistant Professor (Universitätsassistent)
Quantum Optics, Quantum Nanophysics and Quantum Information
Faculty of Physics, University of Vienna
Working on photonic quantum computation and quantum simulation

2005 – 2008 Postdoctoral researcher in the group of Prof. Mikhail Lukin
Department of Physics, Harvard University
Working on quantum repeaters using atomic ensembles as quantum memory

2005 Senior scientist for project linear-optical-quantum-computation
Institute of Experimental Physics, University of Vienna, Austria
Working on optical quantum computing using cluster states

2004 Supervision of ERA-Net within project ERA-pilot Quantum Information Science and
Technology (QIST), Institute for Quantum Optics and Quantum Information (IQOQI)
Providing assistance in structuring an European Network for QIST

Education

2005 PhD in Physics (with distinction), University of Vienna, Austria; Advisor: A. Zeilinger
Experimental demonstration of the first one-way quantum computation

1998 MSc in Chemistry (with distinction and below minimum study duration),
Vienna University of Technology, Austria; Advisor: K. Schwarz
Ab-initio calculations of Oxozirconium Nanoclusters

Awards & Distinctions

2012 Elected as a member of The Global Young Academy

2011 Vienna Funding Award in Science (Förderungspreis der Stadt Wien)

2011 START Price of the Austrian Science Fund (FWF)

2011 Fresnel Price of the European Physical Society (EPS)

2009 Executive member of The German Young Academy

2007 Elected as a member of The German Young Academy at the Berlin-Brandenburg
Academy of Sciences and the German Academy of Natural Scientists Leopoldina

2007 Among top 30 young Austrian scientists by the Austrian magazine Heureka

2006 Prize for outstanding academic performance, University of Vienna

2005 Loschmidt-prize of the Chemical-Physical Society of Vienna

2004 Two experiments were selected by the International Institute of Physics (IOP)
as one of the Top Ten Physics Highlights in 2004

2002 Prize for outstanding academic performance, University of Vienna

2001 Scholarship from the State Lower Austria

Professional Membership

American Physical Society, Chemical-Physical Society, European Physical Society