

Lebenslauf

Name:	PETER RABL
Geburtsdatum:	24.11.1978
Geburtsort:	Bad Häring

derzeitige Position:	Senior Scientist
Adresse:	IQOQI, Technikerstrasse 21a, 6020 Innsbruck

Ausbildung:

Juni 1997	Matura, Bundesrealgymnasium Wörgl
1998 - 2003	Physikstudium an der Universität Innsbruck
2003 - 2006	Doktoratsstudium Physik an der Universität Innsbruck
Oktober 2006	Promotion

Berufliche Laufbahn:

Okt. 2006 - Aug. 2007	Forschungsassistent am Institut für Quantenoptik und Quanteninformation (IQOQI) der Österr. Akademie der Wissenschaften
Sep. 2007 - Aug. 2010	Postdoc am „Institute for Theoretical Atomic, Molecular and Optical Physics“ (ITAMP) of the Harvard-Smithsonian Center for Astrophysics, Cambridge, USA.
Sep. 2010 - jetzt	Senior Scientist am Institut für Quantenoptik und Quanteninformation (IQOQI) der Österr. Akademie der Wissenschaften

Preise und Forschungsstipendien:

Sep. 2007	Ludwig-Boltzmann-Preis der ÖPG
2007-2010	ITAMP Postdoctoral Fellowship (Harvard-Smithsonian CfA)

Wichtigste Publikationen:

2010	“Opto-mechanical transducers for long-distance quantum communication”, K. Stannigel, P. Rabl, A. S. Sørensen, P. Zoller, M. D. Lukin, Phys. Rev. Lett. 105 , 220501
2010	“A quantum spin transducer based on nano electro-mechanical resonator arrays”, P. Rabl, S. J. Kolkowitz, F. H. Koppens, J. G. E. Harris, P. Zoller, and M. D. Lukin, Nature Physics 6 , 602
2009	“Strong magnetic coupling between an electronic spin qubit and a mechanical resonator”, P. Rabl, P. Cappellaro, M. V. Gurudev Dutt, L. Jiang, J. R. Maze, and M. D. Lukin, Phys. Rev. B 79 , 041302
2007	“Molecular Dipolar Crystals as High Fidelity Quantum Memory for Hybrid Quantum Computing”, P. Rabl and P. Zoller, Phys. Rev. A 76 , 042308
2006	“Hybrid Quantum Processors: Molecular Ensembles as Quantum Memory for Solid State Circuits”, P. Rabl, D. DeMille, J. M. Doyle, M. D. Lukin, R. J. Schoelkopf, and P. Zoller, Phys. Rev. Lett. 97 , 033003
2006	“Polar molecules near superconducting resonators: a coherent, all-electrical, molecule-mesoscopic interface”, A. Andre, D. DeMille, J. M. Doyle, M. D. Lukin, S. E. Maxwell, P. Rabl, R. Schoelkopf, P. Zoller, Nature Physics 2 , 636
2006	“Feedback cooling of a single trapped ion”, P. Bushev, D. Rotter, A. Wilson, F. Dubin, C. Becher, J. Eschner, R. Blatt, V. Steixner, P. Rabl, and P. Zoller, Phys. Rev. Lett. 96 , 043003

2004	"Generation of Squeezed States of Nanomechanical Resonators by Reservoir Engineering", P. Rabl, A. Shnirman, and P. Zoller, Phys. Rev. B 70 , 205304
2004	"Interfacing Quantum Optical and Solid State Qubits", L. Tian, P. Rabl, R. Blatt, and P. Zoller, Phys. Rev. Lett. 92 , 247902
2003	"Defect-Suppressed Atomic Crystals in an Optical Lattice", P. Rabl, A.J. Daley, P.O. Fedichev, I.J. Cirac, and P. Zoller, Phys. Rev. Lett. 91 , 110403