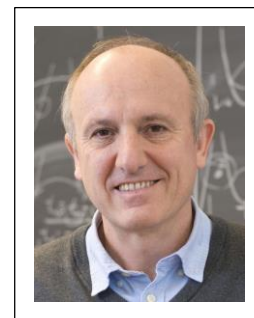


**Name** Daniel LOSS  
**Department** University of Basel  
Department of Physics  
Klingelbergstrasse 82, 4056 Basel, Switzerland  
Homepage: <http://quantumtheory.physik.unibas.ch>  
E-mail: [daniel.loss@unibas.ch](mailto:daniel.loss@unibas.ch)



## Education

1983-1985 *Ph.D. in theoretical physics at the Univ. of Zürich;  
Dissertation in statistical mechanics; advisor: Prof. A. Thellung*  
1979-1983 *Study of theoretical physics at Univ. of Zürich; diploma with distinction.  
Diploma thesis in general relativity; advisor: Prof. N. Straumann*  
1977-1979 *Medical School (1. & 2. Propaed.), Univ. of Zürich, transfer to physics*

## Positions held

2012-present *Team Leader (PI), Quantum System Theory Research Team, RIKEN Center  
for Emergent Matter Science (CEMS), Wako, Japan*  
1996-present *Professor (Ordinarius), Department of Physics, University of Basel, Switzerland*  
1995-1996 *Associate Professor, Simon Fraser University, Vancouver, Canada*  
1993-1995 *Assistant Professor, Simon Fraser University, Vancouver, Canada*  
1991-1993 *Research Scientist, condensed matter theory division, IBM T. J. Watson Research Center,  
Yorktown Heights, USA*

## Awards & Honours

*King Faisal International Prize in Science 2017 (shared with L. Molenkamp) (2017), Outstanding Referee  
APS (2015), Member of the German National Academy of Sciences Leopoldina (2014), Blaise Pascal Medal  
in Physics 2014, European Academy of Sciences (2014), Simons Distinguished Visiting Scholar, KITP, UC  
Santa Barbara (2013), Member of the European Academy of Sciences (2013), Marcel Benoist Prize 2010  
(most prestigious science prize of Switzerland) (2010), Humboldt Research Prize (Germany) (2005),  
Fellow, Institute of Physics (UK) (2005), Fellow, American Physical Society (2000)*

## Current editorial boards

## Selected committee work

## Five recent publications

1. R. Pawlak, S. Hoffman, J. Klinovaja, **D. Loss**, and E. Meyer, Majorana fermions in magnetic chains, **Prog. Part. Nucl. Phys.** 107, pp. 1-19 (2019)
2. T. Nakajima, A. Noiri, J. Yoneda, M.R. Delbecq, P. Stano, T. Otsuka, K. Takeda, S. Amaha, G. Allison, K. Kawasaki, A. Ludwig, A.D. Wieck, **D. Loss**, and S. Tarucha, Quantum non-demolition measurement of an electron spin qubit, **Nat. Nanotechnol.** 14(6), pp 555-560 (2019)
3. P.P. Aseev, P. Marra, P. Stano, J. Klinovaja, and **D. Loss**, Degeneracy lifting of Majorana bound states due to electron-photon interactions, **Phys. Rev. B** 99(20) 205435 (2019)
4. L.C. Camenzind, L. Yu, P. Stano, J.D. Zimmerman, A.C. Gossard, **D. Loss**, and D.M. Zumbühl, Spectroscopy of Quantum Dot Orbitals with In-Plane Magnetic Fields, **Phys. Rev. Lett.** 122(20) 207701 (2019),
5. S.A. Diaz, J. Klinovaja, and **D. Loss**, Topological Magnons and Edge States in Antiferromagnetic Skyrmion Crystals, **Phys. Rev. Lett.** 122(18) 187203 (2019)