



Prof. Hannspeter WINTER

Personal data

- Born in Wels/Austria) August 22 1941, married to Mag. Renate Winter, son Dr. Dorian Winter
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Education and professional positions

1970	Doctorate of Technical Sciences, Vienna University of Technology
1970	Research Scientist, Austrian Nuclear Research Center Seibersdorf
1970–80	Assistant Professor, Vienna University of Technology
1973–75	Visiting Scientist/Consultant, Gesellschaft für Schwerionenforschung, Darmstadt/Germany
1976/77	Visiting Senior Scientist, FOM Instituut voor Atoom- en Molecuulfysica, Amsterdam/NL
1980–90	University Professor for Plasma Physics, Vienna University of Technology
1986	Visiting Senior Scientist, Rijksuniversiteit Groningen/The Netherlands
1990-	Full Professor for "Allgemeine Physik", Vienna University of Technology

Work experience and other relevant occupations

1987–	Director of Institut fuer Allgemeine Physik, Vienna University of Technology
1996–	Head of Research Unit of the Austrian Association to the EURATOM Fusion Program
1989–90	Chairman of Austrian Physical Society
1997–99	Vice chairman of IUPAP Commission C-15
1998–2001	Chairman of EPS Atomic and Molecular Physics Division
1995–2001	Board Member of EPS Plasma Physics Division
1998–	Corresponding Member of Austrian Academy of Sciences
1990–92	Chairman of Austrian University Professors Union (UPV)
1991–2001	Vice chairman of Österr. Universitätsprofessorenkonferenz
2000–2005	Council Member for Austrian Universities of Applied Sciences (Fachhochschulrat) Co-editor of "Plasma Physics and Controlled Fusion" and "Europhysics Letters" IOM of European Physical Society and Member of German Physical Society
2000	Recipient of the "Österreichisches Ehrenkreuz für Wissenschaft und Kunst 1. Kl."
2003	Recipient of the German "Alexander von Humboldt Research Prize"

Research fields and scientific publications

Plasma physics, thermonuclear fusion, atomic and molecular collisions and spectroscopy, surface physics; university management and quality assurance, evaluation and quality management of scientific research and higher educational institutions (expert for EU research programmes, evaluator and advisory board member in various national and international research institutions).
270 publications in international refereed scientific journals.

Some relevant publications since 2001

Excitation of plasmons by impact of slow ions on clean mono- and polycrystalline aluminum

with H. Eder, F. Aumayr, P. Berlinger and H. Störi,
Surface Science **472** (2001) 195-204

Kinetically assisted potential sputtering of insulators by highly charged ions

with G. Hayderer, S. Cernusca, M. Schmid, P. Varga, F. Aumayr, D. Niemann, V. Hoffmann, N. Stolterfoht, C. Lemell, L. Wirtz and J. Burgdörfer,
Phys. Rev. Letters **86** (2001) 3530-3

Statistics of electron and exciton production for grazing impact of keV hydrogen atoms on a LiF(001) surface

with H. Winter, S. Lederer, K. Maass, A. Mertens and F. Aumayr,
J. Phys. B: At. Mol. Opt. Phys. **35** (2002) 3315-25

Quantitative model for the surface sensitivity in Auger photoelectron coincidence spectroscopy (APECS)

with W.S.M. Werner and H. Störi,
Surface Science **518** (2002) L569-576

Classical model of kinetic electron emission near threshold induced by impact of atomic projectiles on a free-electron gas metal

with H. Winter,
Europhys. Letters **62** (2003) 739-45

Separation of potential and kinetic emission for grazing impact of multiply charged Ar ions on a LiF(001) surface

with J. Stöckl, T. Suta, F. Ditroi and F. Aumayr,
Phys. Rev. Letters **93** (2004) 263201

Emission depth-selective Auger-photoelectron coincidence spectroscopy (APECS)

with W.S.M. Werner, W. Smekal, H. Störi, G. Stefani, A. Ruocco, F. Offi, R. Gotter, A. Morgante and F. Tomasini,
Phys. Rev. Letters **94** (2005) 038302

Ion-induced kinetic electron emission from HOPG with different surface orientation

with S. Cernusca, M. Fürsatz and F. Aumayr,
Europhys. Letters **70** (2005) 768-74

Kinetic electron emission induced by grazing scattering of slow atoms: Local probe of the Compton profile near the Fermi edge

with S. Lederer, H. Winter, C. Lemell and J. Burgdörfer
Phys. Rev. B **72** (2005) 161402-R

Fermi momentum above metal surface from electrons ejected by impact of He atoms

with H. Winter and S. Lederer,
Europhys. Letters **75** (2006) 964