

## Helm, Hanspeter

Born: 24. 08. 1947

Institute of Physics  
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### Research areas

Atomic, Molecular, and Optical Physics

### Academic education

Ph.D. in Physics and Physical Chemistry, Univ. of Innsbruck, Austria 1973

Postdoctoral Fellow, Australian National University, Canberra 1974-76

Habilitation and *venia legendi* in Physics, Univ. of Innsbruck, Austria 1978

### Academic appointments

- 1974-1976 Postdoctoral Fellow, Australian National University, Canberra
- 1977-1979 Assistant Professor, University of Innsbruck, Austria
- 1979-1981 Max-Kade-Fellow, Stanford Research Institute, Menlo Park, Ca USA
- 1981-1987 Senior Scientist, SRI International, Menlo Park, Ca USA
- 1987 Fellow, American Physical Society
- 1987-1994 Program Manager, SRI International, Menlo Park, Ca USA
- since 1994 Full Professor, Institute of Physics, Univ. Freiburg
- 1997-1999 Dean, Faculty of Physics, Univ. Freiburg

### Guest Researcher

- 1974 Norwegian Institute of Technology, Trondheim, Norway
- 1984 AMOLF Institute, Amsterdam, The Netherlands
- 1986 University of Aarhus, Denmark, (also 1989 and 1991)
- 1992 University of Konstanz, Germany

### Recent publications

- Fragment Correlation in the Three-Body Breakup of Triatomic Hydrogen*,  
U. Müller, T. Eckert, M. Braun, and H. Helm, Phys. Rev. Lett. **83** 2718 (1999)
- Ion-Recoil Momentum Spectroscopy in a Laser-Cooled Atomic Sample*,  
S. Wolf and H. Helm, Phys. Rev. A **62** 43408 (2000)
- Power Broadening and Doppler Effects of Coherent Dark Resonances in Rb*,  
M. Erhard, S. Nussmann, and H. Helm, Phys. Rev. A **62** 061802 (2000).
- Predissociation of  $H_3$  Rydberg states*,  
I. Mistrik, R. Reichle, H. Helm, and U. Müller, Phys. Rev. A **63** 042711 (2001)
- Photodetachment of  $H^-$  in a strong infrared laser field*,  
R. Reichle, H. Helm, I. Kiyon, Phys. Rev. Lett. **87** 243001 (2001).
- Two-slit interference in strong-field photodetachment of  $H^-$* ,  
R. Reichle, I. Yu. Kiyon, and H. Helm, J. Mod. Optics **50** 461 (2003)
- Production of energetic electrons in photodetachment of  $F^-$* ,  
I. Yu. Kiyon and H. Helm, Phys. Rev. Lett. **90** July issue (2003)