

CV

Klavshansen

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Sunday 14th April, 2024

Affiliations

Professor of physics

Center for Quantum Studies,
Department of Physics,
School of Science,
Tianjin University, China

Senior visiting professor

KU Leuven, Belgium
Quantum Solid-State Physics,
Department of Physics

DOB August 3rd 1958

Citizenship: Danish.

Ph.D. degree 1991 with the project title 'An Experimental Study of Electronic Shell Structure in Large Sodium Clusters' from the Niels Bohr Institute, Copenhagen.

Research interests:

Topics: Quantal and statistical processes in nanoscale quantum systems. Thermodynamics of free clusters and the approach to thermal equilibrium.

Systems: Fullerenes; metal, carbon and molecular clusters; polycyclic aromatic hydrocarbon molecules.

Tools: Mass spectrometers, electrostatic storage rings, nano- and femtosecond lasers, theory.

Publications:

193 peer-reviewed articles, incl. 16 Phys. Rev. Lett., two Nature, one Nature Photonics, and one Science articles; two book chapters; one monograph (2nd edition 2018); h-index = 40, citations 5000+ (Web of Science).

Positions held:

Postdoc, Department of Chemistry, UCLA, 1991-1992.

Research assistant professor, Niels Bohr Institute, Copenhagen, 1992-1995.
EU research fellow, Max Born Institute, Berlin, 1995-1997.
Research associate professor, University of Århus, 1997-1999.
Research scientist, Johannes Gutenberg University, Mainz, 1999.
Senior researcher, University of Jyväskylä, Finland, 1999-2003.
Associate professor, Gothenburg University, Sweden, 2003-2016.
Professor, Lanzhou University, China, 2020-2023.

Scholarships, honors and awards

Guest professor, Tokyo Metropolitan University, October 2011-March 2012.
Guest professor, Université Paris Sud, July 2014.
Visiting scientist, Århus University, July 2014-June 2015.
1000 Talents professorship, Tianjin provincial government, 1 million RMB prize, 2016.

Academic leadership

Board member Chemical and Molecular Physics Section of the European Physical Society, 2004-2007. *Chair* 2007-2010, 2010-2013.
Leader Gothenburg Nanoparticle Platform, 2007-2010.
Board member NanoConnect Scandinavia, 2009-2012.
International program committee member ECAMP10, Salamanca, Spain, 2010 and ECAMP11, Aarhus, Denmark, 2013.
Program committee member of 'Negative ions and molecules in astrophysics' workshop, Gothenburg, Sweden, 2011.
International program committee member of the Electrostatic Storage Devices (ESD) conference series, 2015 - present.
International committee member of EGAS (European Group of Atomic Systems), 2016 - present.

Reviewing; positions, prizes

Reviewer for promotions: V.V.Kresin, University of Southern California, to full professor, 2004; Mikko J. Sipilä to full professor, Helsinki University, 2021; Michael Ehn to full professor, Helsinki University, 2021.
Reviewer for positions: Department of Physics, University of Helsinki, 2015, and 2016; Irish Research Council (postdoc and PhD positions), 2019 and 2022.
Prize: Academic Research Excellence Award of the Chinese Ministry of Education, 2019.

Conference, summer school and workshop organization

Conferences: ISSPIC13 (conference secretary), Gothenburg, 2006; ESD8 (chair), Tianjin 2019.

Workshops: 'Telluride Research Center Cluster Workshop', Telluride, 1993; 'Nucleation of inorganic atmospheric clusters and particles', Gothenburg, 2008; 'NICITA workshop on ions in the atmosphere', Gothenburg, 2013; 'Delocalized electrons in atomic and molecular nanoclusters', Erice, 2016; 'Photophysics of biomolecular ions', Telluride, 2017; 'Dynamics of Nanoclusters with Delocalized Electrons', Erice, August 2022. 'Dynamics of Nanoclusters with Delocalized Electrons', Erice, May 2025.

Summerschools: '1st STINT Summer School', Gothenburg, 2007; 'Shell structure in finite quantum systems', Erice, 2010; 'Storage Devices and Ion Traps', Gothenburg, 2011; 'Nordic Cluster Summer School', Gothenburg, 2014.

Student supervision:

Ph.D. theses supervision:

J. Toppari, M.T. Savolainen, L. Taskinen (w. J. Pekola, University of Jyväskylä); M. Kjellberg, E. Sundén (Gothenburg University) (all completed).

Minghao Li (ongoing).

Master students:

Eight completed.

Degree opponent and committees

Reviewer for the docent degree of Aldana Rosso (Lund University, 2016).

Ph.D thesis opponent of Tinja Olenius (Department of Physics, University of Helsinki, 2015).

Opponent at two Licentiate thesis defenses (Sweden).

Ph.D. committee membership: 10 Swedish, 1 Japanese, 1 French, 1 Belgian.

Editorial work

Special issue editor, International Journal of Mass Spectrometry, vol. **252** (2006).

Editor of ISSPIC13 proceedings issue of Eur. Phys. J. D vol. **43**(1-3) (2007).

Editorial board member The Scientific World Journal (2012-2017); International Journal of Chemical Physics (2013-2015); International Journal of Mass Spectrometry (2016-present).

Invited & selected talks

139 oral presentations, including invited and selected conference talks, talks at workshops and at non-home institutions.

Misc.

Interviewed for *Nature Nanotechnology* **4** (2009) 701; *Physical Review Letters* editorial material (<http://physics.aps.org/articles/v9/16> (2016)); *Physics Focus* article (2017).