

Stavros Komineas

Curriculum Vitae

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Professional Experience

- Department of Mathematics and Applied Mathematics, University of Crete, Heraklion, Crete, Greece
Associate Professor (May 2017 – present)
Assistant Professor (September 2008 – May 2017)
- Max-Planck Institute for the Physics of Complex Systems, Dresden, Germany
Visiting scientist (2006 – 2008)
- Cavendish Laboratory, University of Cambridge, U.K.
with the Theory of Condensed Matter group (2002 – 2006)
I held an EPSRC (U.K. Research Council) “Postdoctoral Fellowship in Theoretical Physics”
- Physics Department, University of Bayreuth, Germany (1998 – 2002)
I have held:
TMR (European Union network) Fellowship
DFG (German State Research Foundation) Fellowship
European Graduate School Fellowship

Education

- University of Crete and Research Center of Crete (FORTH), Greece
PhD in Physics (October 1998)
PhD thesis : “*Dynamics of topological magnetic solitons*”, Supervisor: N. Papanicolaou
- University of Crete and Research Center of Crete (FORTH), Greece
MSc in Physics (September 1991 – March 1993)
- Institute for Theoretical Physics, University of Amsterdam, The Netherlands
Undergraduate diploma thesis (ERASMUS student, February–May 1990)
Subject: “*Period-doubling route to Chaos*”, Supervisor (in Amsterdam): H.W. Capel
- University of Patras, Greece
BSc in Physics (October 1986 – October 1990)

Personal

Date and Place of birth : July 17, 1968, Kalamata, Greece

Nationality : Greek

Languages: English (fluent), German (fluent), Greek (native)

Research Interests

- Theory of Magnetism and Magnetic Materials
 - Dynamics of topological solitons in ferromagnets: bubbles, vortices, vortex-antivortex pairs.
 - Micromagnetics of antiferromagnetic elements.
- Bose-Einstein Condensates (BEC)
 - Solitary waves in an atomic confined BEC. Superfluid vortex rings.
 - Nonlinear phenomena in mean field theories in polariton condensates.
- Mathematics and physics of solitons in higher dimensions

Organisation of Scientific Events

- Workshop: *“Domain Microstructure and Dynamics in Magnetic Elements”*
ACMAC, Heraklion, Crete, 8-11 April 2013
- Workshop and Seminar: *“Topological Patterns and Dynamics in Magnetic Elements and in Condensed Matter”*
Max-Planck Institute for the Physics of Complex Systems, Dresden, 27 June - 8 July 2016
- Workshop: *“Partial Differential Equations in Physics and Materials Science”*
Heraklion, Crete, 10–16 May 2018
- Conference: *“12th International Symposium on Hysteresis Modeling and Micromagnetics”*
Heraklion, Crete, 19–22 May 2019

Honours

- Associate Member of St. Edmund’s College, University of Cambridge (Oct 2004 - May 2006)
- Mercator Fellow, Visiting Professor, RWTH Aachen University (1/2/2017 - 30/4/2017)

Visiting Research Fellow

- Los Alamos National Laboratory, Center for Nonlinear Studies (CNLS)
(Los Alamos, New Mexico, 1 November – 12 December 2001)
- Kavli Institute of Theoretical Physics (KITP), Program on *“Quantum gases”*
(University of California, Santa Barbara, 5 April – 1 May 2004)
- Ecole Normale Supérieure, *“Cold atoms”* group
(Paris, France, 1 June – 30 June 2004)
- Cavendish Laboratory, TCM group, Cambridge
(Cambridge, U.K., 19 January – 15 February 2011)
- Clarendon Laboratory, Quantum Materials group, Oxford
(Oxford, U.K., 1 February – 15 April 2012)
- Cavendish Laboratory, TCM group, Cambridge
(Cambridge, U.K., 16 April – 15 June 2012)
- RWTH Aachen University (Mercator Fellow), Germany
(Aachen, Germany, 1 February – 30 April 2017)