

CHRISTINA PSAROUDAKI

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EDUCATION

University of Crete, Physics Department

Ph.D in Theoretical Physics

2010–December 2014

Thesis title: *Dynamics in field-induced phases of spin-1 antiferromagnetic chains*

Supervisor: Prof. X. Zotos and Prof. N. Papanicolaou

MSc. in Advanced Physics

2008–2010

Thesis title: *Low energy magnon modes in the helimagnet $Ba_2CuGe_2O_7$*

Supervisor: Prof. N. Papanicolaou

University of Cyprus, Physics Department

B.A. in Physics

2004–2008

Thesis title: *Oscillations of a Bose-Einstein condensate in a box with moving walls*

Supervisor: Prof. S. Theodorakis

WORKSHOPS AND SUMMER SCHOOLS

Summer Schools

- International School of *Physics and Technology of Matter*, Otranto Italy, September 2012.
- School in *Dynamics and transport in quantum magnets*, Ljubljana, Slovenia, June 2012.
- School in *Emergent materials for technical applications*, IFW Dresden, Germany, June 2011.
- School in *Strongly correlated electronic systems, beyond Fermi-liquid theory*, Les Houches, April 2011.

Workshops

- Workshop on *Quantum Magnets-2013, Advances in Quantum Magnets-Dynamics* Kolympari Crete, Greece, September 2013 (talk).
- Workshop on *Correlations and Coherence in Quantum Systems*, Évora, Portugal, October 2012 (poster).
- Workshop on *Transport phenomena in low dimensional quantum magnets*, Kolympari Crete, Greece, September 2010.

Experience

- Talk at the Dresden High Magnetic Field Laboratory (HLD), June 2012, Dresden, Germany.
- Theoretical support for the experiment *Spin dynamics and high-field properties of low dimensional and frustrated spin systems—ESR studies of single-ion bound states in the large- D spin system DTN*, National High Magnetic field Laboratory, Tallahassee, FL, USA, PI: Sergei Zvyagin, April 2011.

TEACHING

- Teaching assistant in Thermodynamics and Statistical Mechanics, Fall 2014.
- Teaching assistant in Quantum Mechanics I, Fall 2011 and Fall 2012.
- Teaching assistant in Quantum Mechanics II, Spring 2010.
- Teaching assistant in Laboratory Physics II - Electromagnetism, Fall 2008, Spring 2009, Spring 2009.

SCHOLARSHIPS

- Marie Curie Fellowship, Marie Curie Initial Training Network LOTHERM (2010–2013)
- Scholarship from the Foundation for Research and Technology - Hellas (2008–2010)
- Scholarship from the Cyprus State Scholarship Foundation (2004–2008)

PUBLICATIONS

1. C. Psaroudaki, X. Zotos, *Spin and magnetothermal transport of the $S = 1/2$ XXZ chain*, (in progress).
2. C. Psaroudaki, J. Herbrych, J. Karadamoglou, P. Prelovek, X. Zotos, and N. Papanicolaou, *Effective $S=1/2$ description of the $S=1$ chain with strong easy-plane anisotropy*, Phys. Rev. B **89**, 224418 (2014).
3. C. Psaroudaki, S. A. Zvyagin, J. Krzystek, A. Paduan-Filho, X. Zotos, and N. Papanicolaou, *Magnetic excitations in the spin-1 anisotropic antiferromagnet $\text{NiCl}_2 - 4\text{SC}(\text{NH}_2)_2$* , Phys. Rev. B **85**, 014412 (2012).
4. S. Theodorakis, and C. Psaroudaki, *Oscillations of a Bose-Einstein condensate in a rapidly contracting circular box*, Physics Letters A **373** 441 (2009).

REFERENCES AVAILABLE

Prof. Xenophon Zotos, University of Crete, Heraklion (Greece), zotos@physics.uoc.gr

Prof. Nikos Papanicolaou, University of Crete, Heraklion (Greece), papanico@physics.uoc.gr

Dr. Sergei A. Zvyagin, Dresden High Magnetic Field Laboratory (HLD), Rossendorf (HZDR), (Germany), s.zvyagin@hzdr.de