CURRICULUM VITAE

Name: Annamária Kiss Nationality: Hungarian Date of birth: 05.02.1976

Working place: MTA Wigner Research Centre for Physics, SZFI

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STUDY:

1994 – 1999 Budapest University of Technology and Economics,

Diploma in Physics

1999 – 2003 Budapest University of Technology and Economics, Doctoral Course

2004 Ph.D. degree, Physics

WORK:

1999 - 2003	MTA Research Institute for Solid State Physics and Optics, young researcher
2003 - 2004	Budapest University of Technology and Economics, Department of Physics research assistant
2004 - 2008	Tohoku University (Sendai, Japan), Department of Physics, research assistant
2008 - 2009	Tohoku University (Sendai, Japan), Department of Physics, JSPS fellow
2009 - 2011	Budapest University of Technology and Economics, Department of Physics, Magyary Zoltán postdoctoral fellow
2011 - 2015	MTA Wigner Research Centre for Physics, SZFI, Marie Curie fellowship

FELLOWSHIP:

- * Japan Society for the Promotion of Science (JSPS) fellowship, 2008-2009.
- * Magyary Zoltán postdoctoral fellowship, 2009-2011.
- * Marie Curie international reintegration grant (IRG FP7), 2011-2015.

PUBLICATIONS:

Number of papers: 22 Independent citations: 219

Hirsch-index: 8

KNOWLEDGE OF LANGUAGES:

- * English, intermediate state exam
- * French, intermediate state exam
- * Japanese

TEACHING ACTIVITY:

- 2000 Electrodynamics, Budapest University of Technology and Economics
- 2001 Experimental Physics, Budapest University of Technology and Economics

VISITS:

- 2002, 1 month École Politechnique Fédérale de Lausanne, Switzerland
- 2003, 1 month Philipps-Universität, Marburg, Germany
- 2004 2009 Tohoku University, Sendai, Japán
- * 2006 January, 1 week: Institute for Solid State Physics (ISSP), University of Tokyo, Kashiwa
- * 2006 May, 1 week: Japan Atomic Energy Agency (JAEA), Tokai
- * 2006 July, 1 week: Hokkaido University, Sapporo
- * 2007 November, 1 week: Iwate University, Morioka

RESEARCH INTEREST:

strongly correlated electron systems, magnetic properties of rare earth and actinides, multipolar orderings, Kondo problem, quantum Monte Carlo simulation, spintronics

COLLABORATIONS:

- □ Prof. Y. Kuramoto, Dr. J. Otsuki, Dr. S. Hoshino (Tohoku University, Sendai, Japan)
- □ Prof. H. Kusunose (Ehime University, Matsuyama, Japan)
- □ Prof. Karlo Penc, (MTA Wigner Research Centre for Physics, Hungary)
- □ Prof. Ferenc Simon, (Budapest University of Technology and Economics, Hungary)
- □ Dr. Balázs Dóra, (Budapest University of Technology and Economics, Hungary)

CONFERENCE PARTICIPATION:

Oral presentations:

- 1) "Magnetic impurity models with strong potential scattering: Reverse Kondo effect", Seminar of European Graduate College (EGC), Ráckeve, Hungary, 2011. August 21-24.
- 2) "Experimental observations in $PrFe_4P_{12}$ from theoretical point of view", The 6th Skutterudite Workshop, ISSP, Kashiwa, Japan, 2008. July 11-13 (invited speaker).
- 3) "Scalar order in PrFe₄P₁₂ and related systems", Nemzetközi Konferencia "New Quantum Phenomena in Skutterudite and Related Systems", Kobe, Japan, 2007. September 26-30 (invited speaker).

- 4) "Theoretical analysis of ³¹P NMR spectra in PrFe₄P₁₂", Skutterudite Workshop, Hachimantai (Morioka), Japan, 2006. November 8-10.
- 5) "Mean field theory for the magnetic behavior of NpTGa₅ (T=Co, Ni, Rh)", Prágai kollokvium "f-electron systems" címmel, Praha, Check Republic, 2006. September 8-11 (invited speaker).
- 6) "Mean-field theory for the magnetic phase diagram of NpTGa₅ (T=Co, Ni, Rh)", JPS meeting, Doshisha University, Kyotanabe Campus, Japan, 2005. September 19-22.
- 7) "Quadrupolar ordering in PrFe₄P₁₂ skutterudite", 21st Century COE Symposium Exploring New Science by Bridging Particle-Matter Hierarchy, Tohoku University, Sendai, Japan, 2005. March 4-5.
- 8) "Notes on the new high-field phase in PrFe₄P₁₂ skutterudite", The Third Workshop on Evolution of New Quantum Phenomena Realized in the Filled Skutterudite Structure, Kobe University, Kobe, Japan, 2005. January 6-8.
- 9) "Octupolar ordering in magnetic fields", a European Graduate College (EGC) szemináriuma, Riezlern, Austria, 2003. August 31-September 6.
- 10) "Pr ordering in filled skutterudite $PrFe_4P_{12}$ ", Seminar of European Graduate College (EGC), Ráckeve, Hungary, 2002. September 3-9.

Poster presentations:

- 1) "Theory of the crossover behavior in $SmRu_4P_{12}$ ", JPS meeting, Iwate University, Morioka, Japán, 2008. September 20-23.
- 2) "Crossover behavior in $SmRu_4P_{12}$ ", The 6th Skutterudite Workshop, ISSP, Kashiwa, Japán, 2008. July 11-13.
- 3) "Elastic anomaly and its field dependence caused by a scalar order: application to $PrFe_4P_{12}$ ", JPS meeting, Hokkaido University, Sapporo, Japan, 2007. September 21-24.
- 4) "Theory of induced dipoles and octupoles for understanding P NMR spectra in PrFe₄P₁₂", JPS meeting, Kagoshima University, Kagoshima, Japan, 2007. March 18-21.
- 5) "Role of induced dipoles and octupoles for understanding P NMR spectra in $PrFe_4P_{12}$ ", The 5th Skutterudite Workshop, ISSP, Kashiwa, Japan, 2007. January 8-10.
- 6) "Effect of magnetic field on scalar order in Pr skutterudites", JPS meeting, Chiba University, Chiba, Japán, 2006. September 23-26.
- 7) "Scalar order: possible scenario for the low-field phase of PrFe₄P₁₂", The 4th Skutterudite Workshop, Tohoku University, Sendai, Japan, 2006. June 1-3.
- 8) "Mean-field model for magnetic orders in NpTGa₅ with T=Co, Ni or Rh", The 3rd COE Symposium: Exploring New Science by Bridging Particle-Matter Hierarchy, Tohoku University, Sendai, Japan, 2006. February 16-18.
- 9) "Multipolar orderings in skutterudites", Joint Workshop on "NQP-skutterudites and NPM in multi-approach", Tokyo Metropolitan University, Tokyo, Japan, 2005. November 21-24.
- 10) "Mean field model for the magnetic behavior of NpTGa₅ with T=Co, Ni and Rh", International Symposium on "Advances in the Physics and Chemistry of Actinide Compounds", Japan Atomic Energy Agency (JAEA), Tokai, Japan, 2005. September 27-29.