Curriculum vitae

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Personal data:
Date and Place of birth: 17 August, 1975, Sepsiszentgyörgy (Sf-Gheorghe), Romania
Status: Married, one child

Education:
BS. in 1997, Faculty of Physics, Babes-Bolyai University, Cluj (Romania)
MS. in 1998, Faculty of Physics, Babes-Bolyai University, Cluj (Romania)

Research Experience:

- September 1st, 1999- present: **Young scientist** at the Research Institute for Solid State Physics and Optics of the Hungarian Academy of Sciences, Budapest, Hungary
- September 1st, 1998-present: Ph.D. candidate at Eötvös Loránd Univ., Budapest,
  Title of Thesis: Numerical investigations of micromagnetic structures
- In 2000, 2001 and 2002 (for 6 months): Guest young scientist at the Boston University, Magneto Optical Device Laboratory, invited by Prof. Floyd B. Humphrey, supported by a NATO Science for Peace Grant.
- In 2001 and 2002 (3 months): Guest young scientist at the Virginia State University invited by Prof. Anthony S. Arrott
- In 2001, 2002 and 2003 (3 months): Guest young scientist at the Sevilla University invited by Prof. A. Conde and V. Franco
- In 1998 and 1999 (3 months): Guest young scientist at the Hyderabad University (India) invited by Prof. S.N. Kaul

Professional skills: Programming in languages: BASIC, PASCAL, C, C++, FORTRAN and Assembly. Beside Hungarian (my mother tongue) I speak fluently Romanian, English and I know some German.

Membership: Roland Eötvös Physical Society of Hungary

Full publication list

(i) **A. Kákay** and L.K. Varga, Monodomain critical radius for soft-magnetic fine-particles, accepted for publication in J. Appl. Phys. in 2004

(ii) **A. Kákay**, M.W. Gutowski, L. Takacs, V. Franco and L.K. Varga, Langevin granulometry of particle size distribution, 2004 J. Phys. A.: Math. Gen. **37** 6027-6041.

(iii) **A. Kákay** and L.K. Varga, Micromagnetic simulation of random anisotropy model, 2004 J. Magn. Magn. Mat. **272-76**: 741-742

(iv) T. Trunk, M. Redjdal, **A. Kákay**, M.F. Raune and F.B. Humphrey, Domain wall structure in Permalloy films with decreasing thickness at the Bloch to Néel transition, 2001 J. Appl. Phys. **89(11)** 7606-7608.

(v) M. Redjdal, **A. Kákay**, M.F. Raune and F.B. Humphrey, Cross-tie walls in thin Permalloy films, 2002 IEEE Trans. Magn. **38(5)** 2471-2473.

(vi) M. Redjdal, **A. Kákay**, T. Trunk, M. F. Ruane, and F. B. Humphrey, Simulation of three-dimensional nonperiodic structures of pi-vertical Bloch line (pi-VBL) and 2pi-VBL in Permalloy films, 2001 J. Appl. Phys. **89(11)** 7609-7611.

(vii) M. Redjdal, **A. Kákay**, M. F. Ruane, and F. B. Humphrey, Magnetic domain wall transitions based on chirality change and vortex position in thin Permalloy (TM) films, 2002 J. Appl. Phys. **91(10)** 8278-8280.

(viii) L.K. Varga, G. Kovács, **A. Kákay**, F. Mazaleyrat, Z. Gercsi, J. Ferenc, É. Fazakas, T. Kulik, C.F. Conde, Microstructure and magnetic properties of $Fe_{85-x}Co_xNb_5B_8P_2$ high temperature nanocrystalline alloys, 2004 J. Magn. Magn. Mater. **272-276(2)** 1506-1507.

(ix) L.K. Varga, Z. Gercsi, G. Kovács, **A. Kákay**, F. Mazaleyrat, Stress-induced magnetic anisotropy in nanocrystalline alloys, 2003 J. Magn. Magn. Mater. **254** 477-479.

(x) L.K. Varga, F. Mazaleyrat, G. Kovács, **A. Kákay**, The role of the residual amorphous matrix in determining the temperature dependence of soft magnetic properties of nc alloys, 2001 J. Magn. Magn. Mater. **226** 1550-1552.

(xi) L.K. Varga, V. Franco, **A. Kákay**, G. Kovacs, F. Mazaleyrat, The role of internal and external demagnetizing effects in nanocrystalline alloys, 2001 IEEE Trans. Magn. **37(4)** 2229-2231.

(xii) L.K. Varga, F. Mazaleyrat, J. Kovac, **A. Kákay**, Magnetic properties of rapidly quenched $Fe_{100-x}Si_x(15 < x < 34)$ alloys, 2001 Mat. Sci. Eng. A-Struct. **304** 946-949.

(xiii) L.K. Varga, F. Mazaleyrat, J. Kovac, **A. Kákay**, Soft magnetic properties of nanocrystalline $Fe_{100-x}Si_x(15 < x < 34)$ alloys, 2000 J. Magn. Magn. Mater. **215** 121-123.