

CV of Ferenc Simon

Personal data

Name Ferenc Simon
Position Professor
Current institution Department of Physics,
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Date of birth 08.06.1974

Education

1992-1997 MSc degree in physics, BME, Hungary
1997-2002 PhD in Physics “Magnetism in strongly correlated systems”, BME Hungary

Employment

2002-2003	Research associate	BME-MTA, Hungary
2003-2005	Postdoctoral researcher	University of Vienna, Austria
2005-2009	Adjunct professor	BME, Hungary
2009-2010	Postdoctoral researcher	University of Vienna, Austria
2011-	professor	BME, Hungary

Awards and prizes

2006 Talentum Prize of the Hungarian Academy of Sciences
2010 ERC Starting Grant
2013 Physics prize of the Hungarian Academy of Sciences
2015 MTA-Lendület

Research interest

- Theory of spin relaxation
- Magnetic resonance experiments
- Optical spectroscopy of solids

Teaching activity

- Experimental physics III (thermodynamics and quantum mechanics foundations)
- Laboratory practices (NMR, rf and heterodyne)

Students supervised

Sándor Tóth (2007-2008) MSc
Gábor Fábrián (2009-2011) (BSc+MSc)
Péter Szirmai (2010-2013) BSc+MSc
Anita Karsa (2010-2014) BSc+MSc
Milán Negyedi (2010-2014) BSc+MSc
Balázs Gyüre (2010-2015) BSc+MSc
Dávid Iván (2012-2013) BSc+MSc
Bence Bernáth (2012-2015) BSc+MSc
Bence Márkus (2012-2015) BSc_MSc
Sami Dzsaber (2012-2015) BSc+MSc
Lénárd Szolnoki (PhD) 2014-
Balázs Gyüre (PhD) 2015-
Bence Márkus (PhD) 2015

Memberships and professional service

- Doctoral council of the physical sciences of the BME
- Faculty board of the Faculty of Natural Sciences of the BME
- Referee PRL, PRB, Nature several others

Grants, fellowships, projects

2006-2009	OTKA F 10 MHUF
2010-2015	ERC Advanced Grant (1.23 MEuro)

Languages

English (Cambridge proficiency), German (fluent, university lecturer), French (conversational), Spanish (conversational)

Scientific impact (as of 01/2015)

130 papers in refereed journals
50+ invites conference talks and seminars
Total number of independent citations: 1200
H-index: 21
Complete list of publications: <https://vm.mtmt.hu//search/slist.php?lang=1&AuthorID=10012456>

Five selected publications

1. F. Simon, A. Jánossy, T. Fehér, F. Murányi, S. Garaj, L. Forró, C. Petrovic, S. L. Bud'ko, G. Lapertot, V. G. Kogan, P. C. Canfield: Anisotropy of Superconducting MgB₂ as Seen in Electron Spin Resonance and Magnetization Data" *Physical Review Letters*. 87, 047002 (2001).
2. F. Simon, Ch. Kramberger, R. Pfeiffer, H. Kuzmany, V. Zólyomi, J. Kúrti, P. M. Singer, and H. Alloul: Isotope Engineering of Carbon Nanotube Systems, *Phys. Rev. Lett* 95, 017401 (2005).
3. F. Simon, H. Kuzmany, B. Nafradi, T. Feher, L. Forro, F. Fulop, A. Janossy, A. Rockenbauer, L. Korecz, F. Hauke, and A. Hirsch: Magnetic fullerenes inside single-wall carbon nanotubes *Phys. Rev. Lett.* 97, 136801 (2006).
4. A. Kiss, A. Pályi, Y. Ihara, P. Wzietek, P. Simon, H. Alloul, V. Zólyomi, J. Koltai, J. Kúrti, B. Dóra, and F. Simon: Enhanced NMR Relaxation of Tomonaga-Luttinger Liquids and the Magnitude of the Carbon Hyperfine Coupling in Single-Wall Carbon Nanotubes *Phys. Rev. Lett.* 107, 187204 (2011).
5. Péter Boross, Balázs Dóra, Annamária Kiss & Ferenc Simon: A unified theory of spin-relaxation due to spin-orbit coupling in metals and semiconductors *Scientific Reports* 3, 3233 (2013).