

## Titusz Fehér's CV

### Personal data

Name Titusz Fehér  
Position Associate professor  
Current institution Department of Physics, Budapest University of Technology and Economics  
Budafoki út 8, H-1111 Budapest, Hungary  
e-mail [tif at server esr.phy.bme.hu](mailto:tif at server esr.phy.bme.hu)  
Phone +36 1 463 19 48 or +36 1 463 11 90  
Fax +36 1 463 41 80

### Education

1996 MSc degree in physics, ELTE, Hungary  
2001 PhD in Physics "Magnetic Resonance Studies of High Temperature Superconductors", BME, Hungary

### Employment

2001–2009	Postdoctoral researcher	MTA-BME, Hungary
2002–2005	Postdoctoral researcher	EPFL, Switzerland
2009–	Associate professor	BME, Hungary

### Awards and prizes

2001 János Bolyai Scholarship of the Hungarian Academy of Sciences  
2001 Young Researcher Award of the Hungarian Academy of Sciences  
2008 János Bolyai Scholarship of the Hungarian Academy of Sciences

### Research interest

- Solid state physics, superconductivity, nanophysics, electron spin resonance, nuclear magnetic resonance
- Theory of everything

### Teaching activity

- Magnetic resonance for physicists
- Group theory for physicists
- Student seminars
- Past: mechanics, electrodynamics, thermodynamics

### Students supervised

- BSc students: Zsófia Szita, Bálint Vógel, Zoltán Scherübl
- MSc students: Mihály Karaszi, Zsolt Szatmári, Károly Nagy

- PhD students: Károly Nagy

## Memberships and professional service

- Referee of Physical Review Letters and Physical Review B

## Grants, fellowships, projects (since 1982)

1998	Scholarship of the French government for PhD studies at CNRS Grenoble
2006–2009	OTKA PF63954 “Electron spin resonance of non-conventional magnets” (12 MFt)
2007–2011	OTKA K68807 “Electron spin resonance of non-conventional magnets” (9 MFt)
2012–2017	OTKA K107228 “Electron spin resonance of spintronic materials” (19 MFt)

## Languages

English (master, special translator), French (master reading, conversational speaking), Russian (beginner)

## Scientific impact (as of 07/2019)

~50 papers in refereed journals

10+ invited conference talks and seminars

Total number of independent citations: ~900

H-index: 17

Complete list of publications: <https://vm.mtmt.hu/www/index.php?lang=1&AuthorID=10001194>

## Five selected publications

1. Julien MH et al., Cu-63 NMR evidence for enhanced antiferromagnetic correlations around Zn impurities in  $\text{YBa}_2\text{Cu}_3\text{O}_{6.7}$ , Physical Review Letters **84**, 3422 (2000).
2. Fehér T et al., Magnetic-field-induced low-energy spin excitations in  $\text{YBa}_2\text{Cu}_4\text{O}_8$  measured by high field  $\text{Gd}^{3+}$  electron spin resonance, Physical Review Letters **85**, 5627 (2000).
3. Simon F et al., Anisotropy of superconducting  $\text{MgB}_2$  as seen in electron spin resonance and magnetization data, Physical Review Letters **87**, 047002 (2001).
4. Antal Á et al., Spin Diffusion and Magnetic Eigenoscillations Confined to Single Molecular Layers in the Organic Conductors  $\kappa\text{-(BEDT-TTF)}_2\text{Cu}[\text{N}(\text{CN})_2]\text{X}$  ( $\text{X}=\text{Cl}, \text{Br}$ ), Physical Review Letters **102**, 086404 (2009).
5. Penc K et al., Spin-Stretching Modes in Anisotropic Magnets: Spin-Wave Excitations in the Multiferroic  $\text{Ba}_2\text{CoGe}_2\text{O}_7$ , Physical Review Letters **108**, 257203 (2012).