

# SCIENTIFIC CURRICULUM VITAE

**Name:** Péter Földi  
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**Workplace:** University of Szeged, Dept. of Theoretical Physics  
**Position:** Associate professor



## EDUCATION, DEGREES:

1994 Maturation (Bolyai János secondary school, Salgótarján)  
1999 MSc in physics (University of Szeged)  
2001 MSc as a teacher of physics (University of Szeged)  
2003 PhD in physics (University of Szeged, summa cum laude)  
2012 Habilitation (University of Szeged)

## GRANTS:

1998-1999 Erasmus grant (Groningen, The Netherlands)  
2003-2006 Hungarian Scientific Research Fund (OTKA) postdoctoral fellowship  
2007-2010 Hungarian Academy of Sciences (HAS) Bolyai Fellowship

## MEMBERSHIP:

Roland Eötvös Physical Society, European Physical Society, HAS Public Body, HAS committee on Atomic and Molecular Physics (2008-2011)

## EMPLOYMENT HISTORY:

University of Szeged, Department of Theoretical Physics: postdoc, assistant professor and associate professor (since 2012).  
Visitor: 2003-2013 Condensed Matter Research Group of the University of Antwerp (one month in each year as an average); 2011, 2013: Max Planck Institute for Quantum Optics, Munich, Germany (twice 2 months).

## REFEREEING, CONFERENCE ORGANIZATION:

Regular referee activity for Physical Review A, B and Letters (since 2004, the server of the APS has a record of 75 reports), as well as for Solid State Communications, Physica Status Solidi, Journal of Physics A, Journal of Applied Physics, Applied Physics Letters.  
Taking part in conference organization: CEWQO (2002), MPTL 11 (2006), "Sokszínű Optika" (2012)

## TEACHING:

Problem solving sessions in classical and quantum mechanics, electrodynamics and introductory algebra and information science courses (since 2000). Regular lectures and PhD courses since 2005.

## THESES SUPERVISED:

BSc: 2, MSc: 2, PhD: 1 (degree already received, summa cum laude). Currently working with two third year PhD and two MSc students.

## RESEARCH INTEREST:

Quantum optics, open quantum systems, decoherence [2,3];  
(Laser) light-matter interaction [4,11,12]  
Dynamics of molecules [1,3,4];  
Spin manipulation and quantum transport phenomena in nanoscale systems [5-10].

## SELECTED CONFERENCE TALKS:

Central European Workshop on Quantum Optics (CEWQO), Balatonfüred 2000., Prague 2001., Szeged 2002., Rostock 2003., Vienna 2006., Prague 2008, Stockholm 2013.  
Wigner Centennial Conference, Pécs 2002.  
NATO-Advanced Study Institute, Cluj Napoca (Kolozsvár) 2005.  
MPQ LAP annual meeting, Frauenchimsee 2011.  
Invited: CEWQO 2012 Sinaia, New Trends in nanophysics and solar energy conversion, Bucuresti, 2013., CEWQO 2015 Warsaw.

## IMPORTANT PUBLICATIONS:

- [1] O. Hadjar, **P. Földi**, R. Hoekstra, et al., *Phys. Rev. Lett.* **84**: 4076, 2000.
- [2] **P. Földi**, A. Czirják, M. G. Benedict, *Phys. Rev. A* **63**: 033807, 2001.
- [3] **P. Földi**, M. G. Benedict, A. Czirják, B. Molnár, *Phys. Rev. A* **67**: 032104, 2003.
- [4] B. Molnár, **P. Földi**, M.G. Benedict, F. Bartha, *Europhys. Lett.* **61**: 445, 2003.
- [5] **P. Földi**, B. Molnár, M.G. Benedict, *Phys. Rev. B* **71**: 033309, 2005.
- [6] **P. Földi**, O. Kálmán, M.G. Benedict, F. M. Peeters, *Phys. Rev. B* **73**: 155325, 2006.
- [7] **P. Földi**, M. G. Benedict, J. M. Pererira, F. M. Peeters, *Phys. Rev. B* **75**: 104430, 2007.
- [8] **P. Földi**, O. Kálmán, M.G. Benedict, F. M. Peeters, *Nano Lett.*, **8**: 2556, 2008.
- [9] **P. Földi**, O. Kálmán, F. M. Peeters, *Phys. Rev. B* **80**: 125324. 2009.
- [10] L. Zs. Szabó, M. G. Benedict, A. Czirják, **P. Földi**, *Phys. Rev. B* **88**: 075438. 2013.
- [11] **P. Földi**, M.G. Benedict, V. S. Yakovlev, *New J. Phys.* **15**: 063019, 2013.
- [12] **P. Földi**, I. Márton, N. Német, V. Ayadi, P. Dombi, *Apl. Phys. Lett.* **106**: 013111 2015.

Cumulative impact factor of all the papers: 100, independent citations: 460, h-index: 12.  
A [link](#) to the complete publication list. MTMT id: 10000176