CV of Attila Virosztek

Personal data

Name	Attila Virosztek
Position	Professor
Current institution	Department of Physics, Budapest University of Technology and Economics 1111 Budapest, Budafoki út 8 Hungary
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Phone	+36 1 463 41 85
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Date of birth	09.06.1958

Education

1982	MSc degree in physics, ELTE, Hungary
1985	PhD in Physics “Ground- and excited states of one dimensional models”, ELTE Hungary

Employment

1985-1986	Postdoctoral researcher	University of Southern California, Los Angeles, USA
1986-1987	Postdoctoral researcher	Max Planck Institute, Stuttgart, Germany
1987-1988	Postdoctoral researcher	University of Southern California, Los Angeles, USA
1988-1990	Postdoctoral researcher	University of Virginia, Charlottesville, USA
1990-1995	Research associate	Research Institute for Solid State Physics, Budapest, Hungary
1995-	Professor of physics	BME, Hungary

Awards and prizes

1991	Karoly Novobatzky prize of the Hungarian Physical Society
1994	Doctor of the Hungarian Academy of Sciences
1996	Physics prize of the Hungarian Academy of Sciences
1997	Szechenyi Professorial Fellowship

Research interest: solid state theory

- Unconventional density waves
- Exotic superconductors
- Graphene and related materials

Teaching activity

- Mechanics I-II
- Theoretical solid state physics
- Modern solid state physics
- Theory of magnetism I-II

Students supervised

- Msc students: Peter Varga (1998), Balazs Dora (1999), Andras Vanyolos (2002), Tamas Toth (2006), Adam Bacsi (2009)
- PhD students: Balazs Dora (2002), Andras Vanyolos (2007), Adam Bacsi (2014)

Memberships and professional service

- Member of the Hungarian Physical Society
- Member of the Solid State Physics Commitee of the Hungarian Academy of Sciences
- Chairman of the Physics Panel of the Bolyai Fellowship
- Referee of Physical Review Letters, Physical Review B, Europhysics Letters, Solid State Communications, Journal of Statistical Mechanics

Grants, fellowships, projects

1992-1995	OTKA T4473 “Low dimensional interacting electron systems and magnetic models” (1.6 Mft)
1996-1999	OTKA T020030 “Interacting electrons in low dimensions” (1.079 Mft)
1999-2001	FKFP 0029/1999 “Symmetry properties of the order parameter of density wave systems” (2.7 Mft)
2000-2003	OTKA T032162 “Unconventional superconductors” (3.6 Mft)
2003-2006	OTKA NDF45172 “Electron-electron interaction in solids” (24.5 Mft)
2004-2007	OTKA T046269 “Unconventional condensates in solids” (5.307 Mft)
2007-2008	OTKA NI70594 “Electron-electron interaction in solids” (15 Mft)
2008-2012	OTKA K72613 “Dirac fermions in solids” (9.207 Mft)
2009-2011	OTKA NN76727 “International doctoral school” (20 MFt)

Invited talks

1986-	More than twenty in the USA, Germany and Hungary

Languages

English (master), German (master reading)

Scientific impact (as of 05/2019)

More than 100 papers in refereed journals
20+ invited conference talks and seminars
Total number of independent citations: 1569
H-index: 21
Complete list of publications: https://vm.mtmt.hu//www/index.php?lang=1&AuthorID=10002647

Five selected publications

1. A. Bacsi and A. Virosztek, *Low frequency optical conductivity in graphene and in other scale invariant two band systems*, Phys. Rev. B **87**, 125425 (2013).
2. A. Vanyolos, B. Dora and A. Virosztek, *Infrared and electronic Raman response of coexisting d-wave density wave and d-wave superconductivity*, Eur. Phys. J. B **77**, 65 (2010).
3. T. P. Devereaux, A. Virosztek and A. Zawadowski, *Charge transfer fluctuation, d-wave superconductivity and the B1g Raman phonon in cuprates*, Phys. Rev. B **51**, 505 (1995).
4. A. Virosztek and J. Ruvalds, *Nested Fermi liquid theory*, Phys. Rev. B **42**, 4064 (1990).
5. A. Virosztek, L. Chen and K. Maki, *Thermodynamics of field induced spin density wave states in Bechgaard salts*, Phys. Rev. B **34**, 3371 (1986).