

CURRICULUM VITAE

Nume si prenume: Fifirig Magda

Email: fifirigmagda@yahoo.com

Data si locul nasterii: 5 octombrie 1958, Odobesti, jud. Bacau

Titlul stiintific: doctor in Fizica, Universitatea din Bucuresti, Facultatea de Fizica

Pozitia actuala: profesor universitar, Universitatea din Bucuresti, Facultatea de Chimie

Domeniu de competenta: Fizica atomica teoretica

- ionizarea cu 2 si 3 fotoni a atomului de hidrogen in camp laser policromatic (calcul perturbativ)
- excitarea disociativa si recombinarea disociativa a cationilor moleculari biatomici (metoda Defectului Cuantic Multicanal)

Cursuri predate

- 1997-2004: Fizica III (Mecanique quantique), specializarea Chimie-Franceza, anul III, sem I.
- 1999-2002: Fizica I (Mecanica si Fizica moleculara), specializarea Chimia mediului, anul I, sem I.
- 2000-2002: Fizica II (Electromagnetism), specializarea Chimia mediului, anul I, sem II.
- 2001-2003: Mecanica, specializarea Chimie fizica, anul I, sem I.
- 2003-2005: Fizica I (Mechanics), specializarea Chimie-Engleza, anul I, sem I.
- 2003-2005: Fizica III (Teoria relativitatii restranse), specializarea Chimie fizica, anul II, sem I.
- 2004: Fizica II (Fizica moleculara), specializarea Chimie fizica, anul I, sem II.
- 2003-2006: Fizica III (Mecanique quantique), specializarea Chimie-Franceza, anul II, sem I.
- 2004-2005: Fizica III (Mecanica cuantica), specializarea Chimie, anul III, sem I.
- 2005-prezent: Mecanica si Electromagnetism, specializarea Chimie, anul I, sem I.
- 2006-prezent: Fizica cuantica, specializarea Chimie, anul I, sem II.

Premii : premiul Stefan Procopiu al Academiei Romane in 2002

Citari: 23 in reviste cotate ISI si in teze de doctorat

Manuale:

1. M. Fifirig, 2001, Mecanique quantique, 227, Ed. Univ. Buc., ISBN 973-575-513-0

2. M. Fidirig, 2002, Fizica - Electromagnetism, 186, Ed. Univ. Buc., ISBN 973-575-664-1

Articole publicate in reviste cotate ISI

1. Two-colour three-photon ionization of hydrogen, **M. Fidirig**, A. Cionga and V. Florescu, J Phys B-At Mol Phys, 30, 2599-2608 (1997) 10 citari
2. Azimuthal angular distribution for two-colour three-photon ionization of hydrogen, **M. Fidirig** and V. Florescu, Eur Phys J D, 2, 143-147 (1998) 2 citari
3. Two-photon four-color ionization of hydrogen, **M. Fidirig**, Laser Phys, 10, 588-593, (2000)
4. Phase dependence of three-colour two-photon ionization of hydrogen, **M. Fidirig**, V. Florescu, A. Maquet and R. Taieb, J Phys B-At Mol Phys, 33, 5313-5327 (2000) 1 citare
5. Ionization of a hydrogen atom from its ground state by a coherent bichromatic laser field, **M. Fidirig** and A. Cionga, Eur Phys J D, 15, 33-39 (2001) 3 citari
6. Helicity dependence of two-photon ionization by a tricolor field, **M. Fidirig**, Opt Commun, 196, 191-199, (2001)
7. Hydrogen ionization by a coherent superposition of three harmonics, **M. Fidirig**, Laser Phys, 11, 989-993, (2001)
8. Dichroic effects in two-photon ionization of hydrogen by a three-color field, **M. Fidirig**, Phys Scripta, 65, 213-218, (2002) 1 citare
9. Asymmetries in two-photon ionization, **M. Fidirig** and M. Stroe, Laser Phys, 12, 963-970, (2002)
10. Circular dichroism in hydrogen multiphoton ionization by a bichromatic field of frequencies ω and 3ω , **M. Fidirig** and A. Cionga, J Phys B-At Mol Phys, 35, 821-828, (2002) 2 citari
11. Phase and ellipticity dependence of the photoelectrons angular distribution in two-color ionization, **M. Fidirig**, Phys Scripta, 65, 392-397, (2002)
12. Circular dichroism in the two-colour two-photon ionization of hydrogen, A. Cionga, **M. Fidirig** and F. Ehlotzky, J Phys B-At Mol Phys, 35, 4875-4884, (2002) 1 citare
13. Dichroic effects in the two-color two-photon ionization of hydrogen, A. Cionga, **M. Fidirig** and F. Ehlotzky, J Mod Optic, 50, 615-620, (2003)
14. Phase control in two-color multiphoton ionization of hydrogen, **M. Fidirig** and M. Stroe, Laser Phys, 13, 810-815, (2003)
15. Elliptic dichroism in hydrogen ionization by a coherent superposition of two harmonics, **M. Fidirig**, A. Cionga and F. Ehlotzky, Eur Phys J D, 23, 333-336, (2003)
16. Phase- and helicity-dependent effects in three-color ionization, **M. Fidirig** and M. Stroe, Central European Journal of Physics, 2, 266-276, (2004)
17. Reactive collisions between electrons and NO⁺ ions: rate coefficient computations and relevance for the

air plasma kinetics, O. Motapon, **M. Ffirig**, A. Florescu, F. O. Waffeu-Tamo, O. Crumeyrolle, G. Varin-Breant, A. Bultel, F. Vervisch, J. Tennyson, and I. F. Schneider, Plasma Sources Sci. Technol. 15, 23-32, (2006) 3 citari

18. Dissociative excitation in electron collisions with HD⁺, **M. Ffirig** and M. Stroe, Phys Scr, 78, 065302, (2008)