

CURRICULUM VITAE

Gayane Grigoryan

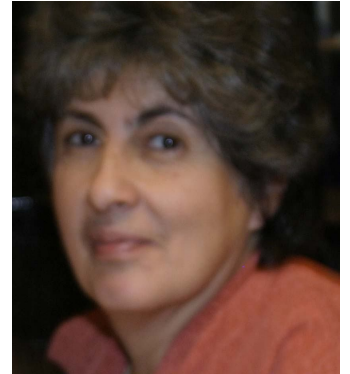
Institute for Physical Research (IPR)
National Academy of Armenian Sciences
Ashtarak-2, 0203 Armenia

E-mail: gayrig@gmail.com

Born February 23, 1948; Yerevan, Armenia

Nationality: Armenia

Marital status: married, have two children



Scientific interest

Quantum and nonlinear optics, coherent resonance interaction, quantum information

Education

Doctor degree, speciality “Optics”

September 10, 2010

Thesis title- “Coherent propagation of resonant laser pulses in media with nonlinear dispersion”.

Ph.D. degree, speciality “Optics”

June 9, 1989

Thesis title- “Propagation of the ultra short pulses in the quasiresonance media with weak-dispersion”.

Master degree –Mathematical Physics, Yerevan State University, Armenia

1971

Student- Department of Physics, Yerevan State University, Armenia

1966-1971

Work Experience

Institute of Physical Research (IPR)

Senior Researcher

2005 - current

Head of Theoretical Department

2004-2005

Senior Researcher

1991-2004

Junior Researcher

1988-1991

Engineer

1978-1988

Russian – Armenian State University

Head of Quantum and Optical Electronics Department

2011 - now

Senior Lecturer,

2007 – 2011

Yerevan State University

Department of Mathematical physics

1971-1978

Assistant (Junior Lecturer)

Grants and Awards

ISF Grant RY7000 (1993-1995);
ANSEF PS-18 (2002);
INTAS 99-00019 (2000-2002);
ISTC A665 (2003-2005);
ISTC A-1095 (2005-2007);
INTAS 06-1000017-9234 (2007-2008);
ANSEF-optPS-1347 (2008),
Volkswagen Foundation 2010-2013

Scientific Visits

Fashbereich Physik, Technische Universitat Kaiserslautern, Germany – 1998, 2002, 2007
Institut Camot de Bourgogne, Université de Bourgogne, Dijon, France – 2009, 2011

List of publications 2008 – 2012

1. G.Grigoryan, "Storage of intensive optical pulses in solids", J.Contemp.Phys (Proceedings of NAS of Armenia), т.43, 83-90, 2008
2. G.Grigoryan, G.Nikogosyan, T.Halfman "Efficient population transfer via bright-state" Proceedings of Laser Physics-2007, 99-102, "Gitutyun", Nat.Acad. Sci. Arm, 2008
3. G.Grigoryan, "Effect of the probe pulse intensity on the optical information storage", Proceedings of Laser Physics-2007, 158-161, "Gitutyun", Nat.Acad. Sci. Arm, 2008
4. M. Oberst, H.Münch, G. Grigoryan, Th. Halfmann Stark-chirped rapid adiabatic passage among a three-state molecular system: Experimental and numerical investigations Phys. Rev. A 78, 033409 (2008)
5. G.G. Grigoryan, Y.T. Pashayan-Leroy, C. Leroy, S. Guerin, Short-length storage of intense optical pulses in solid by adiabatic passage, Phys.Rev. A79, 013813 (2009)
6. G.G. Grigoryan, G. Nikoghosyan, T. Halfmann, Y.T. Pashayan-Leroy, C. Leroy, S.Guerin , Theory of bright-state stimulated Raman adiabatic passage, Phys.Rev. A 80, 033402 (2009).
7. V.O. Chaltykyan, G.G. Grigoryan, Modification of medium phase memory under influence of pulsed inhomogeneous magnetic field, J. Contemp. Phys., 44, 88 (2009).

8. G.G. Grigoryan The selfconsistent theory of selective reflection, Optical Memory and Neural Networks (Information Optics), Vol. 18, No. 1, pp. 34–39. © Allerton Press, Inc.,(2009).
9. G.Grigoryan, L.Tonoyan, A.Sargisyan,D.Sargisyan. Influence of the coupling laser on the spectrum of selective reflection. Proceedings of Laser Physics-2008, 162-165, “Gitutyun”, Nat.Acad. Sci. Arm, 2009
10. Sargsyan,A., Papoyan,A., Sarkisyan,A., Malakyan,Yu. , Grigoryan,G., Sarkisyan,D., Narrow and contrast resonance of increased absorption in Λ -system observed in Rb cell with buffer gas, Armenian Journal of Physics, 2 (2). pp. 84-94. ISSN 1829-1171 (2009)
11. Г.Г.Григорян, “Приближение Борна-Фока и дисперсионные свойства резонансной среды”, Известия НАН Арм., Физика 45, 307-313 (2010).
12. G. Grigoryan, C. Leroy, Y. Pashayan-Leroy, S. Guérin, H.R. Jauslin, ”Superluminal pulse propagation in a non-linear Λ -type atomic medium”, Proceedings of .Laser Physics-2009, pp.9-12, , “Gitutyun”, Nat.Acad. Sci. Arm (2010).
13. E. Gazazyan, G. Grigoryan, and A. Papoyan ,Amplification of a Weak Circularly Polarized Light Signal in a Multilevel Atomic Medium“J. Contemp. Phys. (Armenian Ac. Sci.), 46, no. 4,145-147 (2011).
14. G. Grigoryan, V. Chaltykian, and V. Paturyan “Short pulse propagation in an inverted two-level medium” Optical Memory and Neural Networks (Information Optic), 20, no. 4,233-236, (2011)
15. G. Grigoryan, V. Chaltykian, C. Leroy, Y. Pashayan-Leroy, S. Guérin, H.R. Jauslin ,„Superluminal adiabats in a Λ -type atomic medium“,Proc. SPIE, Proceedings of International Scientific Workshop “Photonics & Micro- and Nano-structured Materials” (PMNM-2011),), Proc. SPIE 8414, 84140Z (2011)
16. V.Chaltykian, E.Gazazyan, G, Grigoryan, A.Hovhannisyan, O.Tikhova, “Alternative techniques of population transfer in multilevel systems”, International conference ”Optics and its applications”, Book of abstract,p111,2011

