CURRICULUM VITAE

GOGYAN ANAHIT



PERSONAL INFORMATION

Date and place of birth	October 10, 1984, Yerevan, Armenia
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Affiliation and official Institute for Physical Research, National Academy of

address Sciences of Armenia, Gitavan-2, 0203 Ashtarak, Armenia

Phone Work: +374/10/288150; Mobile: +374/55/660955

Email agogyan@gmail.com / agogyan@ipr.sci.am

Home address Nor-Nork 7-th massive, 37/45, 0092 Yerevan, Armenia

Marital status Single

EDUCATION

2007-2010 Institute for Physical Research of National Academy of Sciences

of Armenia,

Laboratoire Interdisciplinaire Carnot de Bourgogne, Université de

Bourgogne, UMR CNRS 5209, Dijon, France Joint Ph.D. degree (mention trés honorable)

Yerevan State University, Department of Physics 2005-2007

Master's degree with honors

2001-2005 Yerevan State University, Department of Physics

Bachelor's degree with honors

EMPLOYMENT

Institute for Physical Research, National Academy of

2014 March to Sciences of Armenia Scientific Secretary Present

European commission 2012 Dec to

Evaluator/reviewer of FP7 and H2020 proposals/projects Present

Institute for Physical Research, National Academy of

2005 Dec to Sciences of Armenia Present

Junior Researcher

AWARDS RECEIVED

- 2010 International Prize "The Commonwealth of Debuts", competition among young scientists of the CIS countries http://en.kremlin.ru/events/president/news/9240
- 2009 The Prize of the President of the Republic of Armenia
- 2008 Conference ISQE-2008 Award for "Best poster presentation of young scientist, selected for oral presentation", Burgas, Bulgaria
- 2006 Award "Best Student-2006", annual competition of Yerevan State University
- 2005 Award "Best Graduation Paper", Yerevan State University, department of Physics

FIELDS OF INTEREST

Quantum Optics, Quantum Information, Nonlinear Optics, Atomic physics

CURRENT RESEARCH INTERESTS

Light-matter interaction in the presence of magnetic field;

Cavity QED studies;

Light propagation in photorefractive medium;

Generation of quantum states

SCIENTIFIC VISITS

- 2014, January, May, October Universite de Bourgogne, Dijon, France Short-term invited researcher
- 2012, December, Universite de Bourgogne, Dijon, France Short-term invited researcher
- 2012, March-June, University of California, Berkeley, USA Short-term scientific visit
- 2011, August, Universite de Bourgogne, Dijon, France Invited researcher by CNRS (Chercheuse invitée par CNRS)

PUBLICATIONS

- ❖ Magnetic field induced absorption reduction as a tool for vector magnetic field measurement
 - A. Gogyan, N. Sisakyan, Yu. Malakyan Journal of Physics B (under submission) (2016)
- Coherent-state-induced transparency
 A. Gogyan, Yu. Malakyan
 Physical Review A 93, 043801 (2016)

- Selective reflection of light from Rb2 molecular vapor
 Shmavonyan, A. Khanbekyan, A. Gogyan, M. Movsisyan, A. Papoyan
 Journal of Molecular Spectroscopy 313, 14–18 (2015)
- Heralded generation of single photons entangled in multiple temporal modes with controllable waveforms
 - A. Gogyan, N. Sisakyan, R. Akhmedzhanov and Yu. Malakyan Laser Physics 24, 115204 (2014)
- Deterministic production of N-photon states from a single atom-cavity system A. Gogyan, S. Guerin, C. Leroy, Yu. Malakyan Physical Review A 86, 063801 (2012)
- Study of radiofrequency radiation by means of optical effect of electromagnetically induced transparency A. Gogyan, N. Sahakyan, Yu. Malakyan

J. Cont. Phys., **47**, 248 (2012)

- Deterministic generation of indistinguishable single-photon pulses in the single-atom-cavity QED system
 - A. Gogyan, S. Guerin, H.-R. Jauslin, and Yu. Malakyan International Journal of Quantum Information, **09**, pp 239-249 (2011)
- ❖ Deterministic source of a train of indistinguishable single-photon pulses with single-atom-cavity system
 - A. Gogyan, S. Guerin, H.-R. Jauslin, and Yu. Malakyan Phys. Rev. A **82**, 023821 (2010)
- Shaping coherent excitation of atoms and molecules by a train of ultrashort laser pulses

A. Gogyan, S. Guerin and Yu. Malakyan Phys. Rev. A **81**, 033401 (2010)

Qubit transfer between photons at telecom and visible wavelengths in a slowlight atomic medium

A. Gogyan

Phys. Rev. A 81, 024304 (2010)

- Quantum beating in uv radiation generation by ultrashort laser pulses via four-wave mixing
 - A. Gogyan and Yu. Malakyan

Phys. Rev. A 78, 053401 (2008)

- Entanglement-preserving frequency conversion in cold atoms
 - A. Gogyan and Yu. Malakyan

Phys. Rev. A 77, 033822 (2008)

- Selective excitation of atoms and molecules by ultrashort laser pulses
 - A. Gogyan, and Yu. Malakyan

Proc. of SPIE, **7027**, 70271L (2008)

- Quantum Beats in Stimulated Electronic Raman Scattering of Ultrashort Laser Pulses
 - A. Gogyan and Yu. Malakyan

Optics and Spectroscopy 101, 751 (2006)

FEW RECENT CONFERENCE/MEETINGS

FEW RECENT CONFERENCE/MEETINGS	
2016 June 26 –	66 th Lindau Nobel Laureate Meeting
July 1	
2015 October	A. Gogyan, N. Sisakyan, Sh. Petrosyan, Yu. Malakyan, "Transparency
6 – 9	induced by transverse magnetic field as a tool for vector magnetic
	field measurement", Laser Physics 2015 (oral)
2014 October	A Commer C Cueria II D Javelia C Javev Vv Malalusa
29 – 31	A. Gogyan, S. Guerin, HR. Jauslin, C. Leroy, Yu. Malakyan, "Deterministic generation of indistinguishable multi-photon states in a
25 51	single atom-cavity system", CCQED meeting (Circuit and cavity QED),
	Aarhus, Denmark (poster)
2014	, amas, Dermana (poster)
2014	A. Gogyan, S. Guerin, C. Leroy, Yu. Malakyan, "Single photon and
September 22	multi-photon state generation in a single atom-cavity QED system",
- 26	QuantArm 2014, Ashtarak, Armenia (oral)
2014	A. Gogyan, Yu. Malakyan, "Single photon entanglement in multi-
September 1 –	temporal modes", 2nd International Symposium on Optics and its
5	Applications, Yerevan, Armenia (oral)
	A. Gogyan, "Non-linear faraday effect for the pulsed probe field", QIPC
2013 June 30 –	(Quantum Information Processing and Communication), Florence,
July 5	Italy (poster)
	, , ,
2013 June 16 –	A. Gogyan, Generation of N-Photon States From a Single Atom
22	Confined in a Cavity QED, CAMEL IX (Control of Quantum Dynamics of
	Atoms, Molecules and Ensembles by Light), Nessebar, Bulgaria (oral)
2011 June 28 –	A Course C Course V Malal as HEfficient accounts of Early
July 2	A. Gogyan, S. Guerin, Yu. Malakyan, "Efficient generation of Fock
•	states in a single-atom cavity-QED system", EGAS 43 (Conference of
	the European Group for Atomic Systems), Fribourg, Switzerland (poster)
	(10000.)
GRANTS RECEIVED AS PRINCIPAL INVESTIGATOR	
2015 January – December ANSEF PS-opt-3771	
2013 January – December ANSEF PS-opt-3201	
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2012 March – 20	013 October NFSAT TFP-12-03
•	013 October NFSAT TFP-12-03
2012 March – 20	013 October NFSAT TFP-12-03
2012 March – 20 2010 January – N	O13 October NFSAT TFP-12-03 November NFSAT/CRDF ECSP 09-85
2012 March – 20 2010 January – N INVOLVED IN 2009 – 2013	O13 October NFSAT TFP-12-03 November NFSAT/CRDF ECSP 09-85 LIA IRMAS International Associated Laboratory
2012 March – 20 2010 January – N INVOLVED IN 2009 – 2013 2011 – 2014	November NFSAT TFP-12-03 November NFSAT/CRDF ECSP 09-85 LIA IRMAS International Associated Laboratory FP7 IPERA grant N295025
2012 March – 20 2010 January – N INVOLVED IN 2009 – 2013	O13 October NFSAT TFP-12-03 November NFSAT/CRDF ECSP 09-85 LIA IRMAS International Associated Laboratory

CONFERENCE ORGANIZATION

2015 October Laser Physics 2015 – Annual international conference organized by

6 – 9 Institute for Physical Research, Ashtarak, Armenia

Conference Secretary

2014 September QuantArm 2014 - International conference and workshop,

22 – 26 Tsaghkadzor, Armenia

Conference Secretary

2013 October 8 – Laser Physics 2013 – Annual international conference organized by

11 Institute for Physical Research, Ashtarak, Armenia

Local organizing committee

2011 September OPTICS and its applications - International conference, Yerevan-

5 – 9 Ashtarak, Armenia

Local organizing committee

OTHER ACTIVITIES

2014 September Member of Armenian Territorial Committee of Optics

Present

2013 September Popularization of Science in schools:

- December Series of seminars on Physics news in distant Armenian regions

COMPUTER SKILL

Wolfram Mathematica

Matlab

COMSOL MULTIPHYSICS

HTML/CSS

KNOWLEDGE OF LANGUAGES

Armenian Native Russian Fluent English Fluent French Basics