

## CURRICULUM VITAE

**NAME:** KAMO H. AHARYONYAN



### **PERSONAL:**

*Date of birth:* 11 April, 1956  
*Nationality:* Armenian  
*Marital status:* Married  
*Number of children:* Three  
*Permanent address:* 11 Totovenc st., apt. 45,  
Yerevan 375096, Armenia,  
Tel.: +(374 99) 346718 (mob.)  
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**SPECIALITY:** Physics

**Academic degree:** Ph.D in Physics -1985( Soviet Candidate in Physics and Mathematics Science ) (Certificate from the Highest Attestation Commission under the USSR Council of Ministers (Moscow)-1985).  
Doctor of Science in Physics -2014 (Certificate from the Supreme Certifying Commission of Republic of Armenia (Yerevan)-2015).

**TITLES:** Associate Professor at State Engineering University of Armenia (since 1987, University Certificate)  
Associate Professor in Physics (since 1989, (Certificate from the Highest Attestation Commission under the USSR Council of Ministers (Moscow)-1989))  
Professor in Physics (since 2017, (Certificate from the National Polytechnic University of Armenia and Supreme Certifying Commission of Republic of Armenia (Yerevan-2017))

**PRESENT PROFESSIONAL POSITION:** Professor

**EMPLOYER:** National Polytechnic University of Armenia (NPUA),  
Armenian State Pedagogical University after Kh. Abovyan (ASPU),  
Russian-Armenian University (RAU).

**EMPLOYMENT RECORD:** Associate Professor since 1987, State Engineering University of Armenia.

### **EDUCATION:**

01 September 1987 -01 July 1988 Research Scientist at Physics Department of Essex University, Colchester, UK.

Topic of Ph.D thesis: Theoretical Study of Influence of Quantum Size Effect on Optical Properties and Energy Spectrum of Quasiparticles - Excitons and Phonons in a Spatially Confined Semiconductor Media

15 February 1985 Ph.D in Physics ( Soviet Candidate in Physics and Mathematics Science )

Topic of Doctoral thesis:	The Coulomb States and Optical Absorption in Semiconductor Nanostructures with Dielectric Confinement
25 October 2014	Doctor of Science in Physics
1980 – 1982	Ph.D student, Solid State Physics Chair, Yerevan State University, Armenia.
1972 – 1977	B.S./M.S., Theoretical Physics, Department of Physics, Yerevan State University, Armenia.
<b>EMPLOYMENT:</b>	
2017- up to now	Professor, Russian-Armenian University
2017- up to now	Professor, Armenian State Pedagogical University,
2017- up to now	Professor, National Polytechnic University of Armenia.
1987 – 2017	Associate Professor, State Engineering University of Armenia.
1982 -1987	Assistant, Chair of Physics, State Engineering University of Armenia.
1980 – 1982	Ph.D student, Solid State Physics Chair, Yerevan State University, Armenia.
1977-1980	Junior assistant, Chair of Physics, State Engineering University of Armenia.
Number of publications:	55 articles.
Grants:	British Council Grant, 1987. State Science Committee, RA, 2016, 2018.
<b>RESEARCH INTERESTS:</b>	
	1. Low-Dimensional Impurity and Excitonic States
	2. One- and Multi-particle Properties of Semiconductor Nanostructures ( quantum wells, superlattices, quantum wires, quantum dots).
	3. Direct Optical Transitions in Semiconductor Nanostructures.
<b>TEACHING EXPERIENCE:</b>	
	Lectures of Graduate Courses on the subjects of: General Physics, Electrodynamics, Quantum Mechanics, Statistical Physics (in Armenian, in Russian, in English).
	Supervision of graduate and undergraduate students.
<b>COMPUTER SKILLS:</b>	
	MS-Windows, MS-Office
	Scientific computation: Matlab, Mathematica.
<b>LANGUAGE ABILITIES:</b>	
	Armenian – fluently, Russian - fluently, English – fluently.

#### LIST OF RECENT PUBLICATIONS

1. K.H.Aharonyan, N.B.Margaryan, Plasmon-phonon properties of narrow-gap realistic lead salt semiconductor quantum well. Proceedings of the Ninth International Conference “Semiconductor Micro- and Nanoelectronics”, pp. 147-150, 2013.
2. K.H.Aharonyan, E.M.Kazaryan, Screened exciton properties of narrow-gap lead salt finite confining potential semiconductor quantum well. Physica E, v.44, pp. 1924-1930, 2012.
3. K.H.Aharonyan, E.M.Kazaryan, The Effect of Screened Coulomb Interaction on the Optical Properties of EuS/PbS/EuS Finite Confining Quantum Well, Int. J. of Modern Phys.: Conf. Series, v. 15, pp. 224 – 231, 2012.

4. K.H.Aharonyan, N.B.Margaryan, Plasmon-phonon Coupling in lead salt semiconductor quantum well. *Journal of Physics : Conf. Series*, Vol. 673, pp. 012002-1 -6, 2016.
5. K.H.Aharonyan, N.B.Margaryan, Dielectric confinement influenced screened Coulomb potential for a semiconductor quantum wire. *Journal of Physics : Conf. Series*, Vol. 672, pp. 012009-1 -8, 2016.
6. K.H.Aharonyan, N.B.Margaryan, Binding energy of the one-sided dielectrically enhanced screened exciton in semiconductor quantum well. ՀՀ ԳԱԱ Ջեկույցներ (NASA REPORTS), v.116, pp. 57-63, 2016.
7. K.H.Aharonyan, Kazaryan E. M., Kokanyan E. P. Coulomb interaction in the finite dielectric environment based MOSFET structures. *Proc. of the 11-th Int. Conf. "Semiconductor Micro- and Nanoelectronics"*, pp. 41-47, 2017.
8. K.H.Aharonyan, Kokanyan E. P. Coulomb interaction energy in thin oxide based MOSFET systems. *Bulletin, National Polytechnic University of Armenia*, pp. 54-58, 2018.
9. K.H.Aharonyan, Kokanyan E. P., Aillerie M. Screened shallow impurity properties of quantum well heterosystems with high- $\kappa$  dielectric barrier environment. *Physica E*, Vol. 113, pp. 47-53. 2019.
10. K.H.Aharonyan, Kokanyan E. P., Aillerie M. Energy of the screened Coulomb interaction in MOS structure with the dielectric environment of finite thickness. *Bulletin, National Polytechnic University of Armenia*, pp. 43-48, 2020.