Curriculum Vitae

Name	**David Boris Hayrapetyan**	
Personal	Day of birth:	27 Aug 1982, Kapan, Armenia
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Education	• **2000 – 2004**, Graduated from Faculty of Physics, Department of Solid State Physics, Yerevan State University. • **2004 – 2006**, Department of Solid State Physics, Faculty of Physics, Yerevan State University. • **2006 – 2009**, Postgraduate Student, Department of Physics, State Engineering University of Armenia. • **2009** – Doctor of Physics (PhD), in the field of Semiconductor and Insulator Physics, Yerevan State University Scientific supervisors Prof. J.R. Panosyan and Prof. E.M. Kazaryan, acad. of NAS RA Theme: "**Investigation of electronic and optical properties of quantum structures with complicated geometry**".
Degrees	• **2004 –** Bachelor's degree of Physics in the field of Physics (Diploma of honor), Yerevan State University. Bachelor thesis: "Electron states in a strongly flattened ellipsoidal quantum dot in the presence of electric and magnetic fields" • **2006 –** Master's degree of Physics in the field of Physics (diploma of honor), Yerevan State University. Master thesis: "Direct interband absorption in strongly flattened and strongly prolated ellipsoidal quantum dots" • **2009 –** Research Engineer, in the field of Electronics, State Engineering University of Armenia. • **2009 –** Doctor of Physics (PhD), in the field of Semiconductor and Insulator Physics, Yerevan State University.
Specialization	Main fields: Solid State Physics, Low Dimensional Systems and Semiconductor Nanostructures, Raman Spectroscopy, Infrared Spectroscopy

Work Experience	• **2007 – 2009**, Junior Research scientist, Faculty of Applied Physics and Engineering, Russian-Armenian (Slavonic) State University. • **2009** – up to now, Associate professor, Faculty of Applied Physics and Engineering, Russian-Armenian (Slavonic) State University. • **2009** – up to now, Research scientist, Heliotechnic Basic Laboratory, State Engineering University of Armenia
Awards	• Gold medal for the excellent advancement and exemplary behavior **2000** • "The Best Student" in Physics Faculty of Yerevan State University 3rd place award **2003** • "The Best Student" in Yerevan State University **2003** • President Educational Award in the field of Information Technologies, First place in "The Best Master" nomination, **2006**. • "The Best scientific work" in **2011** initiated by World Armenian Congress, The Union of Armenians in Russia and The National Academy of Sciences of Armenia in the nomination Physics. • Award from "Gagik Tsarukyan" charitable foundation for articles in the international scientific journals with high impact factor **2011** • "The Best Young Lecturer" in **2011** initiated by Russian-Armenian State University. • Award from "Tashir" charitable foundation for articles with maximum citations in the international scientific journals **2012**

Main Publications

1. Д.Б. Айрапетян, К.Г. Двоян. Электронные состояния в сильно сплюснутой эллипсоидальной квантовой точке при наличии электрического поля. Известия НАН Армении, Физика, т. 40, № 5, стр. 365-369, 2005.
2. D.B. Hayrapetyan, K.G. Dvoyan. Direct interband absorption in strongly flattened ellipsoidal quantum dot in the presence of electric field. Proceedings of the fifth international conference Semiconductor Micro and Nanoelectronics, Agveran, Armenia, September 16-18, p. 165-168, 2005.
3. Д.Б. Айрапетян, К.Г. Двоян, Э.М. Казарян. Прямое межзонное поглощение света в сильно сплюснутой эллипсоидальной квантовой точке. Известия НАН Армении, Физика, т. 42, № 4, стр. 227-235, 2007.
4. Д.Б. Айрапетян. Прямое межзонное поглощение света в сильно вытянутой эллипсоидальной квантовой точке. Известия НАН Армении, Физика, т. 42, № 6, стр. 442-449, 2007.
5. K.G. Dvoyan, D.B. Hayrapetyan, E.M. Kazaryan, A.A. Tshantshapanyan. Electron States and Light Absorption in Strongly Oblate and Strongly Prolate Ellipsoidal Quantum Dots in Presence of Electrical and Magnetic Fields. Nanoscale Research Letters, Volume 2, Issue 12, pp. 601-608, 2007.
6. Д.Б. Айрапетян, К. Г. Двоян, Э.М. Казарян, А.А. Чанчапанян. Электронные состояния в цилиндрической квантовой точке с тонким серповидным сечением с модифицированным потенциалом Пешля-Теллера. Доклады Академии Наук РА, том 108, 4, 320-331, 2008.
7. D.B. Hayrapetyan, K.G. Dvoyan, E.M. Kazaryan. Direct Interband Light Absorption in Strongly Prolated Ellipsoidal Quantum Dots' Ensemble. Nanoscale Research Letters, Volume 4, Issue 2, pp.106-112, 2009.
8. D.B. Hayrapetyan, K.G. Dvoyan, E.M. Kazaryan, A.A.Tshantshapanyan. Electronic States and Light Absorption in a Cylindrical Quantum Dot Having Thin Falciform Cross-Section. Nanoscale Research Letters, Volume 4, Issue 2, pp.130-137, 2009.
9. A. Gharibyan, D. Hayrapetyan, Zh. Panosyan, Ye. Yengibaryan. Preparation of wide range refractive index diamond-like carbon films by means of plasma-enhanced chemical vapor deposition, Applied Optics, vol. 50, issue 31, p. G69, 2011.

10. D.B. Hayrapetyan, Direct interband light absorption in strongly oblate semiellipsoidal quantum dots' ensemble, Proc. SPIE 8414, 84140N, 2011.
11. K.G. Dvoyan, A.A. Tshantshapanyan, D.B. Hayrapetyan, E.M. Kazaryan, Zh.M. Wang, G.J. Salamo, Coupling effects in quantum dot molecules, Proc. SPIE 8414, 841409, 2011.
12. D.B. Hayrapetyan, K.G. Dvoyan, Direct interband absorption of light in a strongly oblate truncated ellipsoidal quantum dot's ensemble, Journal of Physics: Conference Series, Vol. 350, Issue 1, pp. 012018, 2012.
13. H. Kh. Tevosyan, D.B. Hayrapetyan, K.G. Dvoyan, E.M. Kazaryan. Direct Interband Light Absorption in a Spherical Quantum Dot with the Modified Pöschel-teller Potential. International Journal of Modern Physics: Conference Series, vol. 15, issue 01, p. 204, 2012.
14. A. Abdul-Nagy, D.B. Hayrapetyan, Zh.R. Panosyan, Annealing Effects on the Optical and Structural Properties of DLC Films, Journal of Material Science and Engineering B, V 2 (4), pp.295-299, 2012.
15. Д.Б. Айрапетян, Э.М. Казарян. Адиабатическое описание непроницаемых частиц в бесконечно глубокой потенциальной яме. Известия НАН Армении, Физика, т. 47, № 5, стр. 350-358, 2012.
16. D.B. Hayrapetyan, H. Kh. Tevosyan, E.M. Kazaryan. Direct Interband Light Absorption in the Cylindrical Quantum Dot with Modified Pöschl-Teller Potential. Physica E, vol. 46, p. 274-278, 2012.
17. Д.Б. Айрапетян, Э.М. Казарян, А.А. Саркисян. О возможности реализации теоремы кона в случае эллипсоидальных квантовых точек. Известия НАН Армении, Физика, т. 48, № 1, стр. 48-54, 2013.