

CURRICULUM VITAE AND LIST OF PUBLICATIONS**1. Personal Details:**

Name: Pinchas Dahan

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2. Higher Education**A. Undergraduate and Graduate Studies**

Period of Study	Name of Institution and Department	Degree	Year of Approval of Degree
1985-1989	Tel-Aviv University , Faculty of Exact Sciences, School of Physics and Astronomy	B.Sc.	1989
1989-1991	Tel-Aviv University , Faculty of Exact Sciences, School of Physics and Astronomy Advisor: Prof. Victor Fleurov Thesis Title: "The Sum Rule in the Luminescence Spectrum of Transition Metal Impurities in Semiconductors"	M.Sc.	1991
1991-1995	Tel-Aviv University , Faculty of Exact Sciences, School of Physics and Astronomy Advisor: Prof. Victor Fleurov Thesis Title: "Complex Electronic Excitations of Transition Metal Impurities in Semi-conductors ".	Ph.D.	1997

B. Post-Doctoral Studies

Period of Study	Name of Institution, Department and Host	Degree	Year of Completion
1995-1996	Postdoctoral fellow with Prof. I.D. Vagner's Group in "CNRS Laboratoire Des Champs Magnetique Intenses" Grenoble France.		1996

3. Academic Ranks and Tenure in Institutes of Higher Education

Dates	Name of Institution and Department	Rank/Position
1988-1990	Tel-Aviv University, Faculty of Exact Sciences, School of Physics and Astronomy	laboratory teaching assistant
1991-1995	Tel-Aviv University, Faculty of Exact Sciences, School of Physics and Astronomy	laboratory instructor
1996-1997	Tel-Aviv University, Faculty of Exact Sciences, School of Physics and Astronomy,.	adjunct lecturer
1997 – 2006	Achva Academic College for Education	Senior lecturer in Physics
1997 – 2006	Achva Academic College under the Academic Auspices of Ben-Gurion University	Senior lecturer in Physics with tenure
1997- 2001	Ruppin Academic Center School of Engineering, Dept. Electrical and Computer Engineering.	lecturer in Physics
2001 – 2011	Ruppin Academic Center School of Engineering, Dept. Electrical and Computer Engineering.	Senior Lecturer with tenure
2011 - present	Ruppin Academic Center School of Engineering, Dept. Electrical and	Associated Professor in Physics with tenure

	Computer Engineering.	
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4. Offices in Academic Administration

- 1998-2001 Ruppin Academic Center, School of Engineering Head of Mathematics and Physics studies.
- 2001 – 2007 Senior Lecturer, Achva Academic College under the Academic Auspices of Ben-Gurion University.
- 2002 – 2013 Ruppin Academic Center - Staff committee representative.
- 2004 – 2010 Ruppin Academic Center - Member of the teaching committee, School of Engineering.
- 2004 – 2009 Ruppin Academic Center - Member of the committee for Ruppin research enhancement.
- 2005 - 2008 Ruppin Academic Center - Head of the teaching committee for first year studies, School of Engineering.
- 2007- 2009 Ruppin Academic Center - Head of the appeal committee for student discipline.
- 2008 – 2009 Ruppin Academic Center - Head of Research Authority.
- 2008 – 2017 Ruppin Academic Center - Head, Electrical and Computer Engineering Department.
- 2009- 2012 Ruppin Academic Center - Head of the teaching committee, Electrical and Computer Engineering Department.
- 2012 –2016 Ruppin Academic Center - Head of the program studies committee, Electrical and Computer Engineering Department.
- 2010 – 2015 Ruppin Academic Center - Deputy Dean, School of Engineering.
- 2010 – present Ruppin Academic Center – Member of the Academic Council.
- 2012 - present Ruppin Academic Center – Member of the Academic Appointments Committee, Engineering Faculty.
- 2015 – present Ruppin Academic Center Member of the Internal Research Fund.
- 2015 – present Ruppin Academic Center –Head of the committee for Ruppin research enhancement.
- 2015 – present Ruppin Academic Center - Head of Research Authority.

5. Professional functions outside universities/institutions:

2007 - 2012 Membership in the American Physical Society.

Reviewing scientific contributions to:

Referee for the Physical Review journals and Reviews of Modern Physics.

6. . Teaching

a. Courses Taught in Recent Years

Year	Name of Course	Type of Course	Degree	Number of Students
1997-2006	Mechanics, Electricity and Magnetism and mathematics.	Lecture: Achva Academic College under the Academic Auspices of Ben-Gurion University:	B.Sc.	
1997 – 2006	Mechanics, Electricity and Magnetism, Integral and differential Mathematics	Lecture: Achva Academic College for Education:	B.Ed.	
2009 – 2016	Introduction to Thermodynamics	Lecture - Ruppin Academic center	B.Sc.	
1998-present	Electronic Devices.	Lecture - Ruppin Academic center	B.Sc.	
2004 - present	Solid State Physics of semiconductors	Lecture - Ruppin Academic center	B.Sc.	

1998 - present	Modern Physics and Quantum Physics	Lecture - Ruppin Academic center	B.Sc.	
1997 - present	Mechanics, Electricity and Magnetism	Lecture - Ruppin Academic center	B.Sc.	
1997 – 2012	Establishing the Physics laboratory for students	laboratory - Ruppin Academic center	B.Sc.	
1998 – 1999	Physics laboratory	Physics laboratory Ruppin Academic Center.	B.Sc.	

7. Honors, Citation Awards:

- 1993-1996 Tel-Aviv University – Awarded Colton scholarship each academic year.
- 2005-2006 Ruppin Academic Center – Distinguished Researcher.
- 2006-2007 Ruppin Academic Center – Distinguished Researcher.

8. Research Grants:

- 1991 DAAD Scholarship short term visit, Cooperation with Prof. Broser's Group in T.U. of Berlin.
- 1994 DAAD Scholarship summer term visit, Cooperation with Prof. Broser's Group in T.U. of Berlin.
- 1995-1996 Postdoctoral fellow with Prof. I.D. Vagner's Group in "CNRS Laboratoire Des Champs Magnetique Intenses" Grenoble France. Topic research: The Spin Phenomena in Low Dimensional Semiconductors Under Strong Magnetic Fields.
- 1999-2001 The Caesarea Rothschild foundation grant, 210,000\$, to establish a physics and engineering research institute, in the framework of the School of Engineering at Ruppin Academic Collage. (Institute chairman: Prof. I. D. Vagner).

2001 Cooperation with Prof. I.D. Vagner's Group in "CNRS Laboratoire Des Champs Magnetique Intenses" Grenoble France. Topic research: Magnetic impurities in Low Dimensional Semiconductors Under Strong Magnetic Fields. Summer term visit.

9. Scientific Publications:

Chapters in collective volumes - Conference proceedings:

1. Fleurov V. and Dahan P. Covalent Effects and Optical Spectra of Transition Metal Impurities in Semiconductors. *Proceedings SPIE* vol. 2706, pp.296-304, 1995.
2. Dahan P., Fleurov V.N. and Vagner I.D., Transition Metal Impurity in 2D System Under Strong Magnetic Fields. *Proceedings ICPS24*, Jerusalem, August 2-7 (World Scientific), 1998
3. Dahan P., Fleurov V.N., Kikoin K.A. and Vagner I.D., Magnetic Impurities in a Strong Magnetic Field. *Proceedings of Nato Advanced Research Workshop* "Recent Trends in Theory of Physical Phenomena in High Magnetic Fields" 2003

10. Refereed articles and refereed letters in scientific journals:

1. Dahan P., Fleurov V.N., Supplementing Lines in the Luminescence of the A_2B_6 Semiconductors Doped with Transition Metal Impurities, *Euro-phys. Lett.*, 19 (2), pp. 147-152, 1992.
2. Dahan P. and Fleurov V.N., The Sum Rule for the Luminescence of Semiconductors Doped with Transition Metal Impurities. *J. Phys.: Condens. Matter*, 6, 101-116, 1994.
3. Dahan P. and Fleurov V.N., Sum Rule in The Luminescence Spectra. In Kikoin K.A. and Fleurov V.N. Eds. "Transition Metal Impurities in Semiconductors. Electronic Structure and Physical Properties". pp. 249-255, 1994.
4. Dahan P., Fleurov V.N. and Kikoin K.A., Intermediately Bound Excitons in Wurtzite Type Semiconductors Doped with Transition Metal Impurities. *Material Science Forum* Vol. 196-201, pp. 755-760, 1995.
5. Dahan P. and Fleurov V.N., Possibility of a Metastable State for a Transition Metal Impurity in Semiconductor. *Phys. Rev. B* vol. 53 No. 19, pp. 12845-12854, 1996.
6. Dahan P., Fleurov V.N. and Kikoin K.A., Intermediately Bound Exciton. *J. Phys. Condens. Matter*, 9, 5355-5370, 1997.
7. Dahan P., Fleurov V.N., Thurian P., Heitz R., Hoffmann A. and Broser I. Properties of the Intermediately Bound α, β , and γ -Excitons in ZnOCu. *J. Phys. Condens. Matter*, 10, 2007-2019, 1998.
8. Dahan P., Fleurov V.N., Thurian P., Heitz R., Hoffmann A. and Broser I. Isotope shift in semiconductors with transition metal impurities: Experiment and theory applied to ZnO:Cu. *Phys. Rev. B*, 57, 16 9690-9694, 1998.
9. Dahan P., Fleurov V.N., Kikoin K.A. and Vagner I.D., Localized States in Two-Dimensional Semiconductors Doped with Magnetic Impurities in Quantizing Magnetic Field. *Phys. Rev. B*, 65, 1653131-1653139, 2002.
10. P. Dahan and I. D. Vagner, Giant Quantum Oscillations of Nuclear Spin Relaxation Rate in QHE Systems with Magnetic Impurities. *Physica B* Vol 346-347C pp 465-469, 2004.
11. P. Dahan and I. D. Vagner, High Field Resonant Tuning of the Nuclear Spin Relaxation Rate in 2DES with Magnetic Impurities; Strong Scattering Limit. *International Journal of Modern Physics B* Vol.18 Nos. 27-29 3865-3870, 2004.
12. P. Dahan and I. D. Vagner, Resonant Spikes of the Nuclear Spin Qubits Relaxation Rate in Quantum Hall Systems with Magnetic Impurities. *IEEE Transaction on Nanotechnology*, Vol 4, No. 1, pp 52-56, 2005.

13. P. Dahan and I. D. Vagner, Nuclear Spin Relaxation Rate of Magnetic Impurities in Quantum Hall Effect Systems, *Phys. Rev. B*, 72 , 115328, 2005. The paper has been selected for the October 3, 2005 issue of Virtual Journal of Nanoscale Science & Technology (AIP&APS).
14. P. Dahan, Indirect Magnetic Exchange Interaction Mediated by Bound Landau States in 2DES, *Physica E: Low-dimensional Systems and Nanostructures*, Vol. 34, pp 325-328, 2006).
15. P. Dahan, Indirect Exchange Coupling Between Two Nuclei of Magnetic Impurities in 2DES: Strong Scattering Limit, *Euro-phys. Lett.*, Vol. 75 No. 2, pp. 321-327, 2006.
16. P. Dahan, Exciton Bound to Magnetic Impurities in Two Dimension Systems under Strong Magnetic Field, *International Journal of Modern Physics B*, Vol. 21, Nos. 8-9, 1460-1465, 2007.
17. P. Dahan, Intermediately Bound Exciton in Quantum Well Doped with Transition Metal Impurities, *Phys. Rev. B*, 75, 245410, 2007.
18. P. Dahan, Deep Donor State of Interstitial Mn Impurity in GaAs Quantum Well, *Semiconductor Science and Technology*, **22**, 1323, 2007.
19. P. Dahan, Indirect Exchange Coupling of Nuclear Magnetic Impurities in 2DES, *International Journal of Nanoscience*, Vol.7 No. 2, 85-94, 2008.
20. P. Dahan, Resonance Tunneling Through a Single Interstitial Mn Impurity in a GaAs Quantum Well, *Physica E: Low-dimensional Systems and Nanostructures*, 40, 1665, 2008.
21. P. Dahan and P. Malits, Effect of symmetry on the electronic properties of arbitrarily shaped quantum rings in a magnetic field, *Physica E: Low-dimensional Systems and Nanostructures*, 165-171, 2014.

11. Participation in Scholarly Conferences

a. Active Participation

Date	Name of Conference	Place of Conference	Subject of Lecture/Discussion	Role
1993	IPS Annual Meeting. Tel-Aviv University.	IPS Annual Meeting.	Poster, P. Dahan and I. V. Fleurov, Sum-Rule in The Luminescence of Doped Semiconductors.	
July 23-28 1995	ICDS-18	Senday Japan.	Poster, P.Dahan, I. V. Fleurov and K. A. Kikoin, , Intermediately Bound Excitons in Wurtzit Type Semiconductors Doped with Transition Metal Impurities.,	
24-29 August 1996	"XIII International Symposium on Electrons and Vibrations in Solid and Finite Systems",	Berlin.	Poster, P. Dahan and I. V. Fleurov, Possibility of a Metastable State for a Transition Metal Impurity in Semiconductor.	
24-29 August 1996	XIII International Symposium on Electrons and Vibrations in Solid and Finite Systems",	Berlin.	Oral, P. Dahan, I. V. Fleurov, P. Turian A. Hoffmann and I. Brosser, , Intermediately Bound Excitons Spectra in the Green Band in ZnO:Cu Crystals. "	
2-7 August 1998	"The 24th International Conference on the Physics of Semiconductors" (ICPS 24),	Jerusalem Israel	Poster, P. Dahan, I. V. Fleurov, K. A. Kikoin and I. D. Vagner, , Transition Metal Impurity in 2D System Under Strong Magnetic Field,	

30-31 May 2001	"Quantum Processes and Modern Electronics", International workshop	, Holon Academic Institute of Technology, Israel.	Oral, P. Dahan, , Possibility of an Extremely Long Relaxation Time State for a Transition Metal Impurity in Semiconductor.	
21-23 July 2003	"7th International Symposium on Research in High Magnetic Fields"	Toulouse, France	Poster, P. Dahan and I. D. Vagner, , Resonant Spikes of the Nuclear Spin Relaxation Rate in QHE Systems with Magnetic Impurities, Weak Scattering Limits..	
17-21 May 2004	"2004 IEEE NTC Quantum Device Technology Workshop"	Potsdam, NY, USA.	Poster, P. Dahan and I. D. Vagner, , Resonant Spikes of the Nuclear Spin Qubits Relaxation Rate in Quantum Hall Systems with Magnetic Impurities.	
26-30 July 2004	"27th International Conference on the Physics of Semiconductors"	Flagstaff, Arizona, USA.	Poster, P. Dahan and I. D. Vagner, Nuclear Spin Relaxation Rate of Magnetic Impurities in QHE Systems for Strong Scattering Limits.	
2-6 August, 2004	"The 16th International Conference on High Magnetic Fields in Semiconductor Physics"	Tallahassee, Florida, USA.	Oral, P. Dahan and I. D. Vagner, , Giant Quantum Oscillations of the Nuclear Spin Relaxation Rate in Quantum Hall Effect Systems with Magnetic Impurities.	
19-23 December, 2004,	"Correlated Electrons at High Magnetic Fields" Workshop	Ein-Gedi, Israel.	Oral, P. Dahan, Nuclear Spin Relaxation Rate of Magnetic Impurities in QHE Systems. International	
, 9-15 of July, 2005,	"International Conference on Electronic Properties of Two-Dimensional	Sandia National Laboratories University of	Poster P. Dahan Indirect Exchange Coupling of Nuclear Magnetic Impurities in 2DES.	

	Systems and Modulated Semiconductor Structures -16"	California, Santa Barbara New Mexico USA		
Dahan 30-04 of August, 2006,	. "17th International Conference on High Magnetic Fields"	SCP Wurzburg 2006	Poster P. Exciton Bound to Magnetic Impurities in Two Dimension System Under Strong Magnetic Field	
8-12 July, 2007,	"Narrow Gap Semiconductors 13"	University of Surrey, Guildford, England.	Oral, P. Dahan, Spin-Selective Tunneling in Deep Donor States of Interstitial Mn Impurity in GaAs Quantum Well.	
15-20 July, 2007,	"The 17th International Conference on Electronic Properties of Two-dimensional Systems"	Genova, Italy.	Poster, P. Dahan, Deep Donor States of Interstitial Mn Impurity in GaAs Quantum Well.	
15-20 July, 2007,	"The 17th International Conference on Electronic Properties of Two-dimensional Systems"	Genova, Italy.	Poster, P. Dahan, Intermediately Bound Exciton in Quantum Well.	
25-29 August, 2008,	"22nd General Conference of the Condensed Matter Division of the European Physical Society",	Roma, Italy.	Poster, P. Dahan, Spin-Dependent Resonant Tunneling Current via Landau States Bound to Magnetic Impurities.	
25-30 July, 2011,	"Frontiers of Quantum and Mesoscopic Thermodynamics 11",	Prague, Czech Republic.	Poster, P. Dahan and P. Malits, Electronic properties of an arbitrary quantum ring contour in the presence of a magnetic field.	

8-11 July, 2014,	. "11 th International Conference on Nanosciences and Nanotechnologies",	Thessaloniki, Greece.s	Poster, P. Dahan, Spin Polarization in Quantum Ring via Magnetic Impurities	
, 27-31 July, 2015,	"ICDS 2015 - 28th International Conference on Defects in Semiconductors"	Helsinki Finland	Poster, P. Dahan Spin selective transport through quantum ring with magnetic impurities.	
05-11 July, 2015,	"20th International Conference on Magnetism (ICM2015)"..	Barcelona, Spain	Poster, P. Dahan, Magnetic Moment Properties of an Arbitrary Quantum Ring Contour in the Presence of a Magnetic Field,	
18-22 June, 2017,	"EMN Meeting on Quantum".	Vienne, Austria.	Invited Talk , P. Dahan, Effect of magnetic impurity on electronic spin levels in quantum ring,	

12. Seminar presentations at universities and institutions:

1. 1996 "Grenoble High Magnetic Field Laboratory (CNRS-MPI,FKF) France.
2. 1994 Institute for Physics T.U. of Berlin, Germany.

13. • Patents

2010 - Kali; Eran; (Tel-Aviv, IL); Oz; Yariv; (Tel Aviv, IL); Dahan; Pinchas; (Tel-Aviv, IL); Kovalsky; Shahar; (Tel-Aviv, IL); Gigushinski; Oded; (Tel-Aviv, IL); Cohen; Noy; (Tel-Aviv, IL); Goldenberg; Ephraim; (Tel-Aviv, IL)

METHODS AND SYSTEMS FOR READING AN IMAGE SENSOR BASED ON A TRAJECTORY

Country of registration: USA

14. Present Academic Activities:

Research in progress:

1. Magnetic impurities in low dimensional semiconductors in an external magnetic field: Electronic structure and their interactions.
2. Electronic properties of arbitrarily shaped quantum rings in a magnetic field.

Books and articles to be published

In preparation:

1. P. Dahan electronic properties of quantum rings in a magnetic field doped by magnetic impurities(in preperation)