

## CV

1. Name Surname : **Azmi Ali Altıntaş**
2. Birth Date : **15/01/1979**
3. Title : **Associate Professor**
4. Education :

Degree	Major	University	Years
BSc	Physics	Yıldız Technical	2000
MSc	Physics	Boğaziçi	2004
PhD	Physics	Boğaziçi	2009

### 5. Academic Titles:

Assistant Professor: September 2009  
Associate Professor: April 2015

### 6. Responsibilities:

Kuantum Fisher Bilgisi Optimizasyonu Önerisi ve Dolanıklık Ölçütleri ile İlişkisi- PhD.Thesis, Volkan Erol, 2015 (Co-Supervisor: Assoc. Prof. Fatih Özyayın, Işık University)

### 7. Publications:

#### 7.1. Publications in International Refereed Journals:

- 29- Deterministic Local Doublings of W States, JOSA-B, Vol:33 (2016)  
<https://www.osapublishing.org/josab/abstract.cfm?uri=josab-33-11-2313>
- 28- A Novel Approach to the Systematization of  $\alpha$ - decaying Nuclei, Based on Shell Structures, Eur. Phys. J. A., Vol: 52 (2016)  
<http://link.springer.com/article/10.1140/epja/i2016-16140-0>
- 27- Quantum Fisher Information of an Open and Noisy System in the Steady State, Annals of Physics, Vol: 367 (2016)  
<http://www.sciencedirect.com/science/article/pii/S0003491616000270>
- 26- An Optical Setup for Deterministic Creation of Four Partite W State, Acta Physica Polonica Vol:127 (2015)  
[http://przyrbwn.icm.edu.pl/mwg-internal/de5fs23hu73ds/progress?id=NCM58\\_tBpg3lhdSZFk-z\\_2wCKK1mBV9BTG\\_oUwoxxBI](http://przyrbwn.icm.edu.pl/mwg-internal/de5fs23hu73ds/progress?id=NCM58_tBpg3lhdSZFk-z_2wCKK1mBV9BTG_oUwoxxBI),
- 25- Quantum Metrology: Surpassing the Shot-Noise Limit with Dzyaloshinskii-Moriya Interaction, Scientific Reports Vol:5 (2015)  
<http://www.nature.com/articles/srep16360>

- 24- Quantum Fisher Information of Bipartitions of W States, Acta Physica Polonica Vol:127 (2015)  
<http://przyrbwn.icm.edu.pl/APP/PDF/127/a127z4p104.pdf>
- 23- Fusing Multiple W States Simultaneously with a Fredkin Gate, Phys. Rev. A, Vol: 89 (2014)  
<http://journals.aps.org/prabstract/10.1103/PhysRevA.89.042311>
- 22- Analysis of Entanglement Measures and LOCC Maximized Quantum Fisher Information of General Two Qubit Systems, Scientific Reports Vol:4 (2014)  
[http://www.nature.com/articles/srep05422?message-global=remove&WT.ec\\_id=SREP-639-20140701](http://www.nature.com/articles/srep05422?message-global=remove&WT.ec_id=SREP-639-20140701)
- 21- Behavior of Quantum Fisher Information of Bell Pairs under Decoherence Channels, Acta Physica Polonica Vol:125 (2014)  
[http://przyrbwn.icm.edu.pl/mwg-internal/de5fs23hu73ds/progress?id=KNYVcHOkY3rmgkJdVMExF\\_WCOMaWg5pyiNsokyP PwTs](http://przyrbwn.icm.edu.pl/mwg-internal/de5fs23hu73ds/progress?id=KNYVcHOkY3rmgkJdVMExF_WCOMaWg5pyiNsokyP PwTs)
- 20- Alpha Head on Collision with a Fixed Gold Nucleus, Taking into Account the Relativistic Rest Mass Variation as Implied by Energy-Mass Equivalence, Acta Physica Polonica Vol:125 (2014)  
<http://przyrbwn.icm.edu.pl/mwg-internal/de5fs23hu73ds/progress?id=q-SJLfXtUnfU65IdaNy4CYE2F7-MG1PT56PpSdajv7k>
- 19- The Quantum Logic Gates Using q-Deformed Oscillator Algebras, Quantum Inf. Process. Vol: 13 (2014)  
<http://link.springer.com/article/10.1007/s11128-013-0709-3>
- 18- Quantum Fisher Information of Several Qubits in The Superposition of a GHZ and Two W States With Arbitrary Relative Phase, Int. J. Theor. Phys. Vol: 53 (2014)  
<http://link.springer.com/article/10.1007/s10773-014-2119-4#page-1>
- 17- Quantum Fisher Information of N Particles in the Superposition of W and GHZ States Int. J. Theor. Phys. Vol: 52 (2013)  
<http://link.springer.com/article/10.1007/s10773-013-1588-1>
- 16- Inhomogeneous Quantum Invariance Group of Multi-Dimensional Multi-parameter Deformed Boson Algebra CHIN PHYS. LETT. Vol 29 No:1 (2012)  
<http://cpl.iphy.ac.cn/EN/Y2012/V29/I1/010203>
- 15- The Inhomogeneous Invariance Quantum Group of Q-deformed Boson Algebra with Continuous Parameters JNMP Vol:18(1) (2011)  
<http://www.worldscientific.com/doi/pdf/10.1142/S1402925111001209>
- 14- The Multi-dimensional q-Deformed Bosonic Newton Oscillator And Its Inhomogeneous Quantum Invariance Group Central European Journal of Physics Vol:8 No:5 (2010)  
<http://link.springer.com/article/10.2478/s11534-009-0168-8>

- 13- The Inhomogeneous Quantum Invariance Group of The Multi-dimensional  $q$ -Deformed Boson Algebra  
Central European Journal of Physics Vol:8 No:1 (2010)  
<http://link.springer.com/article/10.2478/s11534-009-0077-x>
- 12- The Inhomogeneous Quantum Invariance Group of The Two Parameter Deformed Boson Algebra, Int. J. Theor. Phys. Vol 49 (2010)  
<http://link.springer.com/article/10.1007/s10773-009-0243-3>
- 11- Development of Large Size Micromegas Detector For The Upgrade of The ATLAS Muon System,  
Nuclear Instruments and Methods in Physics Research A 617 (2010)  
<http://www.sciencedirect.com/science/article/pii/S0168900209013485#>
- 10- Non-Deformed Quantum Groups,  
BPL 19, (2010)  
<http://bpl.turkfizikdernegi.org/vol19/19-1-018.pdf>
- 9- The ATLAS muon Micromegas R&D project: towards large-size chambers for the s-LHC  
JOURNAL OF INSTRUMENTATION Vol:4  
[http://iopscience.iop.org/1748-0221/4/12/P12015/pdf/1748-0221\\_4\\_12\\_P12015.pdf](http://iopscience.iop.org/1748-0221/4/12/P12015/pdf/1748-0221_4_12_P12015.pdf)
- 8- The Inhomogeneous Quantum Invariance Group of  $q$ -Deformed Boson Algebra  
MPLA Vol.24 No:38 (2009)  
<http://www.worldscientific.com/doi/pdf/10.1142/S0217732309031211>
- 7- Classification of Inhomogenous Quantum Invariance Groups of Particle Algebras, BPL 16,16001 (2009)
- 6- The Inhomogeneous Invariance Quantum Group of Particle Algebras with Continuous Parameters, Int. J. Theor. Phys. Vol:48 (2009)  
<http://link.springer.com/article/10.1007/s10773-009-0004-3>
- 5- Inhomogeneous Quantum Group Generalization of  $IO(2N, C)$  and  $ISP(2N, C)$   
MPLA VOL:23 No:8 (2008)  
<http://www.worldscientific.com/doi/pdf/10.1142/S0217732308024353>
- 4- The Inhomogeneous Invariance Quantum Supergroup of Supersymmetry Algebra  
Phys. Lett. A 372 (2008)  
<http://www.sciencedirect.com/science/article/pii/S0375960108011730#>
- 3- The Inhomogeneous Quantum Invariance Group of Commuting Fermions  
Central European Journal of Physics Vol.5 No:1 (2007)  
<http://link.springer.com/article/10.2478/s11534-006-0041-y>
- 2- Quantum Groups of Fermionic Algebras  
Czechoslovak Journal of Physics, Vol. 56, No: 10/11 (2006)  
<http://link.springer.com/article/10.1007/s10582-006-0403-0>

- 1- On Unitary Transformations of Orthofermion Algebra That Form a Quantum Group. MPLA Vol:21 No:18 (2006)  
<http://www.worldscientific.com/doi/pdf/10.1142/S0217732306019670>

## **7.2. International Congresses as Invited Participant and Speaker:.**

- 8- Quantum Fisher Information of Open Dissipative Steady State Systems, International Conference on Quantum Science and Applications Conference, (2016), AIP Conference Series.
- 7- Analysis of Negativity and Relative Entropy of Entanglement measures for qubit-qutrit Quantum Communication systems, IEEE Signal Processing and Communications Applications Conference, (2015)  
[http://ieeexplore.ieee.org/xpls/abs\\_all.jsp?arnumber=7129800](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=7129800)
- 6- An analysis of concurrence entanglement measure and quantum fisher information of quantum communication networks of two-qubits, IEEE Signal Processing and Communications Applications Conference, (2014)  
[http://ieeexplore.ieee.org/xpls/abs\\_all.jsp?arnumber=6830229&tag=1](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=6830229&tag=1)
- 5- Strategy with recycling for the enhanced setup for creating large scale W state networks, International Workshop on Quantum Communication Networks, (2014)
- 4- Fusing Several Polarization Based Entangled Photonic W State, Quantum Information Processing and Communication Conference, (2013)
- 3- An Alternative to Dirac's Model, Confining Change Due to the Bound Electron, not in the Field, but Within the Electron Itself, The Physics of Reality (2012)  
[http://www.worldscientific.com/doi/abs/10.1142/9789814504782\\_0022](http://www.worldscientific.com/doi/abs/10.1142/9789814504782_0022)
- 2- New Dirac Equation From The View Point of Particle  
AIP Conf. Proc. 1476 (2012)  
[http://proceedings.aip.org/resource/2/apcpcs/1476/1/361\\_1?isAuthorized=no](http://proceedings.aip.org/resource/2/apcpcs/1476/1/361_1?isAuthorized=no)
- 1- Bosonic Algebras And Their Inhomogeneous Invariance Quantum Groups  
J. Phys.: Conf. Ser. 343 012010 (2012)  
[http://iopscience.iop.org/1742-6596/343/1/012010/pdf/1742-6596\\_343\\_1\\_012010.pdf](http://iopscience.iop.org/1742-6596/343/1/012010/pdf/1742-6596_343_1_012010.pdf)

## **7.3. Translated Books:**

## **7.4. Turkish Publications:**

## **7.5. Turkish Presentations:**

## 7.6 Other Academic Meetings:

## 8. Projects:

- 5- DESIGNING NANO DEVICES BASED ON ATOM-PHOTON INTERACTIONS, BAP-15B103 (IŞIK ÜNİVERSİTESİ BAP), 2016-2018, RESEARCHER
- 4- MİKRO VE NANO YAPILARIN GENELLEŞTİRİLMİŞ HİPERGEOMETRİK FONKSİYONLAR VE YALINKAT FONKSİYONLAR ÜZERİNE BAZI UYGULAMALARI, BAP-14B102 (IŞIK ÜNİVERSİTESİ BAP), 2015-2017, RESEARCHER
- 3- DEVELOPING QUANTUM NETWORKS FOR QUANTUM COMPUTATION & COMMUNICATION AND NEW NANO QUANTUM TECHNOLOGIES, BAP-144101 (IŞIK ÜNİVERSİTESİ BAP), 2014-2015, RESEARCHER
- 2- MOSSBAUER YÖNTEMİ İLE YARMAN-ARIK- ROSANOV ÖNGÖRÜSÜNÜN İNCELENMESİ, BAP-5623 (İSTANBUL ÜNİVERSİTESİ BAP), 2010-2013, RESEARCHER
- 1- GENERAL UNITARY QUANTUM GROUPS, BAP-06B301 (BOĞAZİÇİ ÜNİVERSİTESİ BAP), 2006-2008, RESEARCHER

## 9. Administrative Responsibilities:

## 10. Memberships:

Okan Universtiy Engineering Faculty, Member Of Faculty Academic Council (2015-)  
Okan Universtiy Engineering Faculty, Member Of Faculty Council (2015-)  
Okan Universtiy Engineering Faculty, Member Of Faculty Disciplinary Committee (2016-)  
Okan University Coordinator of Summer Term Education (2016-2017)

## 11. Awards:

Turkey Adressed International Publication Incentive Awards

## 12. Undergraduate and graduate level courses in the last two years:

Academic Year	Period	Course Name	Weekly Hour		Number of Students
			Theoric	Practice	
2016-2017	SPRING	FİZİK 2	2	2	75
2016-2017	SPRING	PHYSICS 2	0	2	140
2016-2017	FALL	FİZİK 1	2	2	115
2016-2017	FALL	PHYSICS 1	2	2	290
2015-2016	SPRING	FİZİK 2	2	2	155
2015-2016	SPRING	PHYSICS 2	2	2	275
2015-2016	FALL	FİZİK 1	2	2	125
2015-2016	FALL	PHYSICS 1	2	2	275