CURRÍCULUM VÍTAE NORMALIZADO

Alberto Casado Rodríguez

GOBIERNO DE ESPAÑA
MINISTERIO DE CIENCIA, INNOVACIÓN Y UNIVERSIDADES

FECYT INNOVACIÓN

Alberto Casado Rodríguez

Surname(s): **Casado Rodríguez**
Name: **Alberto**

Perfil de Dialnet: **2960322**
ResearcherID: **G-7069-2012**
ScopusID: **7005832801**
ORCID: **0000-0002-7596-6593**

Gender: **Male**
Nationality: **Spain**

Current professional situation

Employing entity: Universidad de Sevilla **Type of entity:** University
Department: Física Aplicada III
Professional category: Profesor Titular de Universidad
City employing entity: Sevilla, Andalusia, Spain
Start date: 13/05/2004

Education

University education

Doctorates

Degree awarding entity: Universidad de Sevilla
Date of degree: 01/01/1998
Thesis title: Estudio de los experimentos de conversión paramétrica a la baja con el formalismo de la función de Wigner
Thesis director: Martínez García, José
Thesis co-director: Santos Corchero, Emilio

Teaching experience

Experience supervising doctoral thesis and/or final year projects

Project title: Estudio de los efectos de la radiación de punto cero en experimentos de comunicación cuántica con luz generada en el proceso de conversión paramétrica a la baja: utilizando el formalismo de la función de Wigner
Type of project: Doctoral thesis
Co-director of thesis: José Plácido Suárez
Entity: Universidad de las Palmas de Gran Canaria
Student: Santiago Ramón Guerra Guillén
Date of reading: 12/12/2011

Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

1 **Name of the project:** Información Cuántica: Correlaciones Cuánticas y Nanosistemas
Geographical area: National
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Cabello Quintero, Adán
Nº of researchers: 10
Funding entity or bodies:
Ministerio de Ciencia e Innovación **Type of entity:** Body, others

Name of the programme: Plan Nacional del 2011
Code according to the funding entity: FIS2011-29400
Start-End date: 01/01/2012 - 31/12/2014 **Duration:** 3 years
Total amount: 64.130 €

2 **Name of the project:** Información cuántica: entrelazamiento, computación cuántica y nanodispositivos
Geographical area: National
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Cabello Quintero, Adán
Nº of researchers: 11
Funding entity or bodies:
Ministerio de Ciencia e Innovación **Type of entity:** Body, others

Name of the programme: Plan Nacional del 2008
Code according to the funding entity: FIS2008-05596
Start-End date: 01/01/2009 - 31/12/2011 **Duration:** 3 years
Total amount: 96.800 €

3 **Name of the project:** Desigualdades de Bell con estados híperentrelazados
Geographical area: Regional
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Cabello Quintero, Adán
Nº of researchers: 7
Funding entity or bodies:
Junta de Andalucía (Plan Andaluz de Investigación)

Name of the programme: Proyectos de Excelencia de la Junta de Andalucía
Code according to the funding entity: P06-FQM-02243
Start-End date: 13/04/2007 - 12/04/2010 **Duration:** 3 years
Total amount: 134.536,3 €

4 **Name of the project:** Comunicación cuántica. Aplicaciones de los estados sin decoherencia
Geographical area: National
Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Cabello Quintero, Adán
Nº of researchers: 5
Funding entity or bodies:
Ministerio de Educación y Ciencia

Name of the programme: Plan Nacional del 2005
Code according to the funding entity: FIS2005-07689
Start-End date: 31/12/2005 - 31/12/2008 **Duration:** 3 years - 1 day
Total amount: 26.180 €

5 **Name of the project:** Comunicación cuántica: nuevas aplicaciones del entrelanzamiento
Geographical area: National
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Cabello Quintero, Adán
Nº of researchers: 4
Funding entity or bodies:
Ministerio de Ciencia y Tecnología

Name of the programme: Plan Nacional del 2002
Code according to the funding entity: BFM2002-02815
Start-End date: 01/10/2002 - 30/09/2005 **Duration:** 3 years
Total amount: 33.350 €

6 **Name of the project:** Comunicación cuántica
Geographical area: National
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Cabello Quintero, Adán
Nº of researchers: 5
Funding entity or bodies:
Ministerio de Ciencia y Tecnología

Name of the programme: Plan Nacional del 2001
Code according to the funding entity: BFM2001-3943
Start-End date: 28/12/2001 - 27/12/2004 **Duration:** 3 years
Total amount: 23.499,57 €

7 **Name of the project:** Comunicación cuántica
Geographical area: National
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Cabello Quintero, Adán
Nº of researchers: 5
Funding entity or bodies:
Ministerio de Ciencia y Tecnología

Name of the programme: Plan Nacional del 2000
Code according to the funding entity: BFM2000-0529
Start-End date: 20/12/2000 - 20/12/2001 **Duration:** 1 year - 1 day
Total amount: 4.038,8 €

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

1 Casado, Alberto; Guerra, Santiago. Partial bell-state measurement with type-II parametric down conversion: extracting phase information from the zeropoint field (I). ENTROPY. 25 - 3, MDPI, 2023. Available on-line at: <https://doi.org/10.3390/e25030393>. ISSN 1099-4300

DOI: 10.3390/e25030393
Handle: 11441/147522
Código Scopus: 85152709872
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 2
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - PHYSICS, MULTIDISCIPLINARY
Impact index in year of publication: 2.100
Journal in the top 25%: No
Position of publication: 44
No. of journals in the cat.: 112

Impact source: SCOPUS
Category: Electrical and Electronic Engineering
Impact index in year of publication: 0.541
Journal in the top 25%: No
Position of publication: 271
No. of journals in the cat.: 723

Impact source: SCOPUS
Category: Information Systems
Impact index in year of publication: 0.541
Journal in the top 25%: No
Position of publication: 162
No. of journals in the cat.: 386

Impact source: SCOPUS
Category: Mathematical Physics
Impact index in year of publication: 0.541
Journal in the top 25%: No
Position of publication: 35
No. of journals in the cat.: 80

Impact source: SCOPUS
Category: Physics and Astronomy (miscellaneous)
Impact index in year of publication: 0.541
Journal in the top 25%: No
Position of publication: 103
No. of journals in the cat.: 304

Source of citations: SCOPUS
Citations: 0

2 Casado, Alberto; Guerra, Santiago; Plácido, José. Innsbruck teleportation experiment in the Wigner formalism: a realistic description based on the role of the zero-point field. Frontiers in Physics. 8, FRONTIERS MEDIA SA, 2020. Available on-line at: <https://doi.org/10.3389/fphy.2020.588415>. ISSN 2296-424X

DOI: 10.3389/fphy.2020.588415
Handle: 11441/146984
Código WOS: WOS:000601587400001
Código Scopus: 85098245730
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3
Corresponding author: Yes
Impact source: ISI

Impact index in year of publication: 3.560
Position of publication: 25
Category: Science Edition - PHYSICS, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 86

Impact source: SCOPUS
Impact index in year of publication: 0.754
Position of publication: 50
Category: Biophysics
Journal in the top 25%: No
No. of journals in the cat.: 150

Impact source: SCOPUS
Impact index in year of publication: 0.754
Position of publication: 156
Category: Materials Science (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 644

Impact source: SCOPUS
Impact index in year of publication: 0.754
Position of publication: 21
Category: Mathematical Physics
Journal in the top 25%: No
No. of journals in the cat.: 76

Impact source: SCOPUS
Impact index in year of publication: 0.754
Position of publication: 50
Category: Physical and Theoretical Chemistry
Journal in the top 25%: No
No. of journals in the cat.: 186

Impact source: SCOPUS
Impact index in year of publication: 0.754
Position of publication: 80
Category: Physics and Astronomy (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 313

Source of citations: SCOPUS
Citations: 1

Source of citations: WOS
Citations: 1

3 Casado, Alberto; Guerra, Santiago; Plácido, José. From Stochastic Optics to the Wigner Formalism: The Role of the Vacuum Field in Optical Quantum Communication Experiments. ATOMS. 7 - 3, pp. 1 - 22. MDPI, 2019. Available on-line at: <https://doi.org/10.3390/atoms7030076>. ISSN 2218-2004
DOI: 10.3390/atoms7030076
Handle: 11441/92136
Código WOS: WOS:000487984900029
Código Scopus: 85082817520
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3
Corresponding author: Yes

Impact source: SCOPUS
Impact index in year of publication: 0.376
Position of publication: 102
Category: Atomic and Molecular Physics, and Optics
Journal in the top 25%: No
No. of journals in the cat.: 205

Impact source: SCOPUS
Impact index in year of publication: 0.376
Position of publication: 241
Category: Condensed Matter Physics
Journal in the top 25%: No
No. of journals in the cat.: 443

Impact source: SCOPUS
Impact index in year of publication: 0.376
Position of publication: 44
Category: Nuclear and High Energy Physics
Journal in the top 25%: No
No. of journals in the cat.: 86

Source of citations: SCOPUS
Citations: 6

Source of citations: WOS
Citations: 5

4 Casado, A.; Guerra, S.; Plácido, J.. Rome teleportation experiment analysed in the Wigner representation: the role of the zeropoint fluctuations in complete one-photon polarization-momentum Bell-state analysis. JOURNAL OF MODERN OPTICS. 65 - 17, pp. 1960 - 1974. TAYLOR & FRANCIS LTD, 2018. Available on-line at: <https://doi.org/10.1080/09500340.2018.1478009>. ISSN 0950-0340, ISSN 1362-3044

DOI: 10.1080/09500340.2018.1478009
Código WOS: WOS:000441055600002
Código Scopus: 85047934773
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - OPTICS
Impact index in year of publication: 1.657
Journal in the top 25%: No
Position of publication: 59
No. of journals in the cat.: 95
Impact source: SCOPUS
Category: Atomic and Molecular Physics, and Optics
Impact index in year of publication: 0.436
Journal in the top 25%: No
Position of publication: 80
No. of journals in the cat.: 190
Source of citations: SCOPUS
Citations: 4
Source of citations: WOS
Citations: 3

5 Casado, A.; Guerra, S.; Plácido, J.. Wigner representation for entanglement swapping using parametric down conversion: the role of vacuum fluctuations in teleportation. JOURNAL OF MODERN OPTICS. 62 - 5, pp. 377 - 386. TAYLOR & FRANCIS LTD, 2015. Available on-line at: <https://doi.org/10.1080/09500340.2014.983571>. ISSN 0950-0340, ISSN 1362-3044

DOI: 10.1080/09500340.2014.983571
Código WOS: WOS:000349544800009
Código Scopus: 84937518809
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - OPTICS
Impact index in year of publication: 1.267
Journal in the top 25%: No
Position of publication: 56
No. of journals in the cat.: 90
Impact source: SCOPUS
Category: Atomic and Molecular Physics, and Optics
Impact index in year of publication: 0.494
Journal in the top 25%: No
Position of publication: 75
No. of journals in the cat.: 171
Source of citations: SCOPUS
Citations: 5
Source of citations: WOS
Citations: 4

6 Alberto Casado Rodriguez; Santiago Ramón Guerra Guillén; José Plácido Suárez. Estudio mediante el formalismo de la función de Wigner, de los efectos de la radiación de punto cero en la generación del bit cuántico fotónico. Revista de la Academia Canaria de Ciencias. 26 - 2, pp. 37 - 60. Academia Canaria de Ciencias, 2014. ISSN 1130-4723

Código de Dialnet: ARTREV 5909514
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3
Source of citations: Dialnet
Citations: 0

7 Casado, Alberto; Guerra, Santiago; Plácido, José. Wigner representation for polarization-momentum hyperentanglement generated in parametric down-conversion, and its application to complete Bell-state measurement. EUROPEAN PHYSICAL JOURNAL D. 68 - 11, SPRINGER, 2014. Available on-line at: <https://doi.org/10.1140/epjd/e2014-50368-y>. ISSN 1434-6060, ISSN 1434-6079

DOI: 10.1140/epjd/e2014-50368-y
Código WOS: WOS:000361129000001
Código Scopus: 84908660865
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - OPTICS
Impact index in year of publication: 1.228
Journal in the top 25%: No
Position of publication: 53
No. of journals in the cat.: 87

Impact source: ISI
Category: Science Edition - PHYSICS, ATOMIC, MOLECULAR & CHEMICAL
Impact index in year of publication: 1.228
Journal in the top 25%: No
Position of publication: 25
No. of journals in the cat.: 34

Impact source: SCOPUS
Category: Atomic and Molecular Physics, and Optics
Impact index in year of publication: 0.571
Journal in the top 25%: No
Position of publication: 73
No. of journals in the cat.: 170

Source of citations: SCOPUS
Citations: 8

Source of citations: WOS
Citations: 7

8 Casado, A.; Guerra, S.; Plácido, J.. Partial Bell-State Analysis with Parametric down Conversion in the Wigner Function Formalism. ADVANCES IN MATHEMATICAL PHYSICS. 2010 - Article ID 501521, HINDAWI LTD, 2010. Available on-line at: <https://doi.org/10.1155/2010/501521>. ISSN 1687-9120, ISSN 1687-9139

DOI: 10.1155/2010/501521
Handle: 11441/48426
Código WOS: WOS:000208466100001
Código Scopus: 77957112239
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3
Corresponding author: Yes
Impact source: SCOPUS
Category: Applied Mathematics
Impact index in year of publication: 0.211
Journal in the top 25%: No
Position of publication: 312
No. of journals in the cat.: 401

Impact source: SCOPUS
Category: Physics and Astronomy (miscellaneous)
Impact index in year of publication: 0.211
Journal in the top 25%: No
Position of publication: 160
No. of journals in the cat.: 243

Source of citations: SCOPUS
Citations: 8

Source of citations: WOS
Citations: 6

9 Casado, A.; Guerra, S.; Plácido, J.. Wigner representation for experiments on quantum cryptography using two-photon polarization entanglement produced in parametric down-conversion. JOURNAL OF PHYSICS B-ATOMIC MOLECULAR AND OPTICAL PHYSICS. 41 - 4, pp. 045501-1 - 045501-7. IOP PUBLISHING LTD, 2008. Available on-line at: <https://doi.org/10.1088/0953-4075/41/4/045501>. ISSN 0953-4075, ISSN 1361-6455

DOI: 10.1088/0953-4075/41/4/045501

Código WOS: WOS:000253547600019
Código Scopus: 42549125238
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - OPTICS
Impact index in year of publication: 2.089
Journal in the top 25%: Yes
Position of publication: 14
No. of journals in the cat.: 64

Impact source: ISI
Category: Science Edition - PHYSICS, ATOMIC, MOLECULAR & CHEMICAL
Impact index in year of publication: 2.089
Journal in the top 25%: No
Position of publication: 12
No. of journals in the cat.: 31

Impact source: SCOPUS
Category: Atomic and Molecular Physics, and Optics
Impact index in year of publication: 1.471
Journal in the top 25%: Yes
Position of publication: 16
No. of journals in the cat.: 146

Impact source: SCOPUS
Category: Condensed Matter Physics
Impact index in year of publication: 1.471
Journal in the top 25%: Yes
Position of publication: 49
No. of journals in the cat.: 400

Source of citations: SCOPUS
Citations: 15

Source of citations: WOS
Citations: 13

10 Casado, A.; Marshall, T.; Risco-Delgado, R.; Santos, E.. Spectrum of the parametric down converted radiation calculated in the Wigner function formalism. EUROPEAN PHYSICAL JOURNAL D. 13 - 1, pp. 109 - 119. SPRINGER, 2001. Available on-line at: <https://doi.org/10.1007/s100530170292>. ISSN 1434-6060, ISSN 1434-6079
DOI: 10.1007/s100530170292
Código WOS: WOS:000166418300013
Código Scopus: 18044369464
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 4
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - PHYSICS, ATOMIC, MOLECULAR & CHEMICAL
Impact index in year of publication: 1.583
Journal in the top 25%: No
Position of publication: 15
No. of journals in the cat.: 30

Impact source: SCOPUS
Category: Atomic and Molecular Physics, and Optics
Impact index in year of publication: 1.251
Journal in the top 25%: Yes
Position of publication: 20
No. of journals in the cat.: 116

Source of citations: SCOPUS
Citations: 23

Source of citations: WOS
Citations: 20

11 Casado, A; Risco-Delgado, R; Santos, E. Local realistic theory for PDC experiments based on the Wigner formalism. ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES. 56 - 1-2, pp. 178 - 181. VERLAG Z NATURFORSCH, 2001. Available on-line at: <https://doi.org/10.1515/zna-2001-0129>. ISSN 0932-0784
DOI: 10.1515/zna-2001-0129
Código WOS: WOS:000168408300028

Código Scopus: 0345981076
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - CHEMISTRY, PHYSICAL
Impact index in year of publication: 0.746
Journal in the top 25%: No
Position of publication: 73
No. of journals in the cat.: 93

Impact source: ISI
Category: Science Edition - PHYSICS, MULTIDISCIPLINARY
Impact index in year of publication: 0.746
Journal in the top 25%: No
Position of publication: 34
No. of journals in the cat.: 67

Impact source: SCOPUS
Category: Mathematical Physics
Impact index in year of publication: 0.466
Journal in the top 25%: No
Position of publication: 20
No. of journals in the cat.: 33

Impact source: SCOPUS
Category: Physical and Theoretical Chemistry
Impact index in year of publication: 0.466
Journal in the top 25%: No
Position of publication: 78
No. of journals in the cat.: 130

Impact source: SCOPUS
Category: Physics and Astronomy (miscellaneous)
Impact index in year of publication: 0.466
Journal in the top 25%: No
Position of publication: 86
No. of journals in the cat.: 178

Source of citations: SCOPUS
Citations: 3

Source of citations: WOS
Citations: 3

12 Casado, A.; Fernández-Rueda, A.; Marshall, T.; Martínez, J.; Risco-Delgado, R.; Santos, E.. Dependence on crystal parameters of the correlation time between signal and idler beams in parametric down conversion calculated in the Wigner representation. EUROPEAN PHYSICAL JOURNAL D. 11 - 3, pp. 465 - 472. SPRINGER, 2000. Available on-line at: <https://doi.org/10.1007/s100530070074>. ISSN 1434-6060, ISSN 1434-6079
DOI: 10.1007/s100530070074
Código WOS: WOS:000089200800017
Código Scopus: 0034258348
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 6
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - PHYSICS, ATOMIC, MOLECULAR & CHEMICAL
Impact index in year of publication: 1.421
Journal in the top 25%: No
Position of publication: 16
No. of journals in the cat.: 30

Impact source: SCOPUS
Category: Atomic and Molecular Physics, and Optics
Impact index in year of publication: 1.119
Journal in the top 25%: Yes
Position of publication: 19
No. of journals in the cat.: 116

Source of citations: SCOPUS
Citations: 22

Source of citations: WOS
Citations: 21

13 Casado, A; Marshall, TW; Santos, E. Type II parametric downconversion in the Wigner-function formalism: entanglement and Bell's inequalities. JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS. 15 - 5, pp. 1572 - 1577. OPTICAL SOC AMER, 1998. Available on-line at: <https://doi.org/10.1364/JOSAB.15.001572>. ISSN 0740-3224

DOI: 10.1364/JOSAB.15.001572
Código WOS: WOS:000073593200018
Código Scopus: 0032389228
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 3
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - OPTICS
Impact index in year of publication: 1.853
Journal in the top 25%: Yes
Position of publication: 6
No. of journals in the cat.: 47
Source of citations: SCOPUS
Citations: 39
Source of citations: WOS
Citations: 34

14 Casado, A; FernandezRueda, A; Marshall, TW; RiscoDelgado, R; Santos, E. Dispersion cancellation and quantum eraser experiments analyzed in the Wigner function formalism. PHYSICAL REVIEW A. 56 - 3, pp. 2477 - 2480. AMER PHYSICAL SOC; American Physical Society (APS), 1997. Available on-line at: <https://doi.org/10.1103/PhysRevA.56.2477>. ISSN 2469-9934, ISSN 2469-9926, ISSN 1094-1622, ISSN 1050-2947

DOI: 10.1103/PhysRevA.56.2477
Código WOS: WOS:A1997XV84000109
Código Scopus: 0001570787
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 5
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - PHYSICS
Impact index in year of publication: 2.764
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 63
Source of citations: SCOPUS
Citations: 27
Source of citations: WOS
Citations: 24

15 Casado, A; FernandezRueda, A; Marshall, T; RiscoDelgado, R; Santos, E. Fourth-order interference in the Wigner representation for parametric down-conversion experiments. PHYSICAL REVIEW A. 55 - 5, pp. 3879 - 3890. AMER PHYSICAL SOC; American Physical Society (APS), 1997. Available on-line at: <https://doi.org/10.1103/PhysRevA.55.3879>. ISSN 2469-9934, ISSN 2469-9926, ISSN 1094-1622, ISSN 1050-2947

DOI: 10.1103/PhysRevA.55.3879
Código WOS: WOS:A1997WX95200077
Código Scopus: 0001268847
Type of production: Scientific paper
Format: Journal
Position of signature: 1
Total no. authors: 5
Corresponding author: Yes
Impact source: ISI
Category: Science Edition - PHYSICS
Impact index in year of publication: 2.764
Journal in the top 25%: Yes
Position of publication: 7
No. of journals in the cat.: 63
Source of citations: SCOPUS
Citations: 48

Source of citations: WOS **Citations:** 45

16 Casado, A; Marshall, TW; Santos, E. Parametric downconversion experiments in the Wigner representation. JOURNAL OF THE OPTICAL SOCIETY OF AMERICA B-OPTICAL PHYSICS. 14 - 3, pp. 494 - 502. OPTICAL SOC AMER, 1997. Available on-line at: <https://doi.org/10.1364/JOSAB.14.000494>. ISSN 0740-3224
DOI: 10.1364/JOSAB.14.000494
Código WOS: WOS:A1997WM65200002
Código Scopus: 0031530293
Type of production: Scientific paper **Format:** Journal
Position of signature: 1
Total no. authors: 3 **Corresponding author:** Yes
Impact source: ISI **Category:** Science Edition - OPTICS
Impact index in year of publication: 2.032 **Journal in the top 25%:** Yes
Position of publication: 4 **No. of journals in the cat.:** 45
Source of citations: SCOPUS **Citations:** 60
Source of citations: WOS **Citations:** 57

17 Alberto Casado Rodriguez; Ramón Risco Delgado; Emilio Santos Corchero. Local realism via the Wigner function formalism for PDC light. Foundations of quantum physics: proceedings of the Workshop on Foundations of Quantum Physics held at Universidad de Cantabria, Santander, Spain, to celebrate the 65th anniversary of professor Emilio Santos, February 8-9, 2001. pp. 39 - 44. Real Sociedad Española de Física, 2002. ISBN 84-932150-3-1
Código de Dialnet: ARTLIB 8978881
Type of production: Book chapter **Format:** Book
Position of signature: 1 **Degree of contribution:** Author or co-author of chapter in book
Total no. authors: 3
Source of citations: Dialnet **Citations:** 0

18 Alberto Casado Rodriguez; Ramón Risco Delgado; Emilio Santos. Modelo realista local para los experimentos de conversión paramétrica a la baja basado en la representación de Wigner de la óptica cuántica. Física cuántica y realidad. pp. 285 - 296. Universidad Complutense, 2002. ISBN 84-7491-640-2
Código de Dialnet: ARTLIB 3013971
Type of production: Book chapter **Format:** Book
Position of signature: 1 **Degree of contribution:** Author or co-author of chapter in book
Total no. authors: 3
Source of citations: Dialnet **Citations:** 0

19 Cetto, Ana María; Casado, Alberto; Hess, Karl; Valdés-Hernández, Andrea. Editorial: Towards a Local Realist View of the Quantum Phenomenon. Frontiers in Physics. 9, FRONTIERS MEDIA SA, 2021. Available on-line at: <https://doi.org/10.3389/fphy.2021.651127>. ISSN 2296-424X
DOI: 10.3389/fphy.2021.651127
Handle: 11441/137343
Código WOS: WOS:000625405600001
Código Scopus: 85102236119
Type of production: Editorial **Format:** Journal
Position of signature: 2
Total no. authors: 4
Impact source: ISI

Impact index in year of publication: 3.718
Position of publication: 32
Category: Science Edition - PHYSICS, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 86

Impact source: SCOPUS
Impact index in year of publication: 0.669
Position of publication: 52
Category: Biophysics
Journal in the top 25%: No
No. of journals in the cat.: 151

Impact source: SCOPUS
Impact index in year of publication: 0.669
Position of publication: 185
Category: Materials Science (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 641

Impact source: SCOPUS
Impact index in year of publication: 0.669
Position of publication: 22
Category: Mathematical Physics
Journal in the top 25%: No
No. of journals in the cat.: 74

Impact source: SCOPUS
Impact index in year of publication: 0.669
Position of publication: 55
Category: Physical and Theoretical Chemistry
Journal in the top 25%: No
No. of journals in the cat.: 191

Impact source: SCOPUS
Impact index in year of publication: 0.669
Position of publication: 82
Category: Physics and Astronomy (miscellaneous)
Journal in the top 25%: No
No. of journals in the cat.: 311

Source of citations: SCOPUS
Citations: 3

Source of citations: WOS
Citations: 2

Works submitted to national or international seminars, workshops and/or courses

Title of the work: Wigner function description of entangled photon pairs produced in nonlinear crystals
Emilio Santos Corchero; Alberto Casado Rodriguez; Agustín Fernández Rueda; José Martínez García; Ramón Risco Delgado. "Wigner function description of entangled photon pairs produced in nonlinear crystals". En: Symmetries in quantum mechanics and quantum optics: proceedings of the First International Workshop. Burgos (Spain), 21-24 September 1998. Universidad de Burgos; Caja de Burgos, 1999, pp. 353 - 368. ISBN 84-95211-08-4
Código de Dialnet: ARTLIB 7084986