

Fisa de verificare a indeplinirii standardelor minimale

Conferentiar dr. Iulia GHIU

Domeniul de abilitare: **Fizică**

Standarde minimale (definite în anexa nr. 3 la ordinul 6129/20.12.2016 privind aprobarea standardelor minimale necesare și obligatorii pentru conferirea titlurilor didactice învățământul superior a gradelor profesionale de cercetare-dezvoltare, **a calității de conducător de doctorat și a atestatului de abilitare**):

$$A \geq 2, I \geq 4, P \geq 4, C \geq 40, h \geq 10, T \geq 12.$$

Punctajul total CNATDCU se calculeaza astfel:

$$T = A + I/2 + P/2 + C/20 + h/5.$$

Indicator	A	I	P	C	h	T
Obtinut de Iulia Ghiu	2,94	8,5	11,188	144,02	12	22,38

$$\begin{aligned} \text{PUNCTAJUL TOTAL CNATDCU} &= 2,94 + 8,5 / 2 + 11,188 / 2 + 144,02 / 20 + 12 / 5 \\ &= \mathbf{22,38} \end{aligned}$$

Toate criteriile prevăzute în standardele minimale CNATDCU sunt indeplinite.

1. Activitatea didactica si profesionala

1.2 Capitole de carti in edituri internationale recunoscute Web of Science in calitate de autor

- a) **Iulia Ghiu**, '*Polarization and Entanglement of Three-Photon Bell-Diagonal Mixed States*', pp. 99 – 111, in '*New Developments in Quantum Optics Research*', N. Stewart (Ed.), Nova Science Publishers, 2015, ISBN 978-1-63483-394-3. **1**
- b) A. Karlsson, M. Bourennane, **Iulia Ghiu**, D. Ljunggren, A. Mansson, '*Some properties of three-party entangled states and their application in quantum communication*', pp. 472 – 483, in '*The Physics of Communication*', I. Antoniou, V. A. Sadovnichy, and H. Walther (Eds.), World Scientific Publishing CO. PTE. LTD., 2003, ISBN 981-238-449-9...1/5 = **0,2**

1.4 Carti, manuale, indrumare de laborator in edituri nationale sau alte edituri internationale ca autor

- a) **Iulia Ghiu**, '*Quantum Telecloning*', 111 pagini, Lambert Academic Publishing, 2014, ISBN 978-3-659-25010-1. **0,5**
- b) Gheorghe Ciobanu, **Iulia Ghiu**, '*Probleme de termodinamica si fizica statistica*', Editura Universitatii din Bucuresti, 270 pagini, 2008, ISBN 978-973-737-566-7.0,5/2 = **0,25**

1.6 Lucrari in extenso (cel putin 3 pagini) publicate in Proceedings-uri indexate ISI
Iulia Ghiu, '*A new method of construction of all sets of mutually unbiased bases for two-qubit systems*', Journal of Physics: Conference Series **338**, 012008 (2012)..... **0,2**

1.10 Director pentru proiecte de cercetare castigate prin competitie nationala

- a) Director de proiect pentru tineri doctoranzi CNCSIS-TD cod 27694/2005, avand titlul '*Folosirea canalelor multiparticulă pentru transmiterea stărilor corelate cuantice la distanță*', perioada 2005 – 2006, Valoarea 19000 lei ~ 5621 Euro
- b) Director de proiect pentru postdoctoranzi PN-II-RU-PD-2009-1-151, avand titlul '*A new method of construction of mutually unbiased bases. Applications*', perioada 1 August 2010 – 31 Iulie 2012, Valoarea 298764 lei ~ 73442 Euro

Suma proiecte in Euro = 79063 EURO

Punctaj proiecte = 79063/ 100000 = 0,7906

Total punctaj A: 2,94 puncte.

2. Activitatea de cercetare

2.1 Articole in reviste cotate ISI

Articol	A.I.S. in anul publicarii	Punctaj
1. Iulia Ghiu , M. Bourennane, and A. Karlsson, <i>Entanglement-assisted local transformations between inequivalent classes of three-particle entangled states</i> , Physics Letters A 287 , 12-18 (2001).	0,72	$0,72/3 = \mathbf{0,24}$
2. Iulia Ghiu , <i>Asymmetric quantum telecloning of d-level systems and broadcasting of entanglement to different locations using the "many-to-many" communication protocol</i> , Physical Review A 67 , 012323 (2003).	1,3	1,3
3. Iulia Ghiu and A. Karlsson, <i>Broadcasting of entanglement at a distance using linear optics and telecloning of entanglement</i> , Physical Review A 72 , 032331 (2005).	1,2	$1,2/2 = \mathbf{0,6}$
4. M. Boca, Iulia Ghiu , P. Marian, and T. A. Marian, <i>Quantum Chernoff bound as a measure of nonclassicality for one-mode Gaussian states</i> , Physical Review A 79 , 014302 (2009).	1,084	$1,084/4 = \mathbf{0,271}$
5. Iulia Ghiu , <i>Local transformations of superpositions of entangled states</i> , Physics Letters A 373 , 922-926 (2009).	0,651	0,651
6. G. Björk, J. Söderholm, L. L. Sanchez-Soto, A. B. Klimov, Iulia Ghiu , P. Marian, and T. A. Marian, <i>Quantum degrees of polarization</i> , Optics Communications 283 , 4440 – 4447 (2010).	0,420	$0,42/6 = \mathbf{0,07}$
7. Iulia Ghiu , G. Björk, P. Marian, and T. A. Marian, <i>Probing light polarization with the quantum Chernoff bound</i> , Physical Review A 82 , 023803 (2010).	1,044	$1,044/4 = \mathbf{0,261}$
8. Iulia Ghiu , <i>Comment on Entanglement transformation between two-qubit mixed states by LOCC</i> , Physics Letters A 374 , 4633 (2010).	0,695	0,695
9. Iulia Ghiu , T. Isdrăilă, and Ș. Suci, <i>Imperfect many-to-many teleportation</i> , Romanian Journal of Physics 57 , 564 – 570 (2012).	0,095	$0,095/3 = \mathbf{0,032}$
10. Iulia Ghiu , <i>Generalized telebroadcasting of entanglement</i> , Romanian Journal of Physics 57 , 1046 – 1052 (2012).	0,095	0,095
11. Iulia Ghiu , <i>Non-optimal cloning of qubits at a distance</i> , Proceedings of the Romanian Academy, Series A 13 , 42 – 45 (2012).	0,104	0,104

12. Iulia Ghiu , <i>Generation of all sets of mutually unbiased bases for three-qubit systems</i> , Physica Scripta T153 , 014027 (2013).	0,410	0,410
13. Iulia Ghiu , P. Marian, and T. A. Marian, <i>Measures of non-Gaussianity for one-mode field states</i> , Physica Scripta T153 , 014028 (2013).	0,410	$0,410/3 = \mathbf{0,137}$
14. P. Marian, Iulia Ghiu , and T. A. Marian, <i>Gaussification through decoherence</i> , Physical Review A 88 , 012316 (2013).	1,006	$1,006/3 = \mathbf{0,335}$
15. Iulia Ghiu , <i>Asymmetric telecloning using non-maximally entangled channels</i> , Romanian Reports in Physics 65 , 721–727 (2013).	0,133	0,133
16. C. Ghiu and Iulia Ghiu , <i>Construction of the mutually orthogonal extraordinary supersquares</i> , Central European Journal of Mathematics 12 , 337 – 348 (2014).	0,465	$0,465/2 = \mathbf{0,2325}$
17. P. Adam, V. A. Andreev, Iulia Ghiu , A. Isar, M. A. Man'ko, and V. I. Man'ko, <i>Wigner functions and spin tomograms for qubit states</i> , Journal of Russian Laser Research 35 , 3 – 13 (2014).	0,092	$0,092/5,5 = \mathbf{0,017}$
18. Iulia Ghiu , <i>Quantum Chernoff bound as a measure of efficiency of quantum cloning for mixed states</i> , Physica Scripta T160 , 014013 (2014).	0,384	0,384
19. Iulia Ghiu , P. Marian, and T. A. Marian, <i>Loss of non-Gaussianity for damped photon-subtracted thermal states</i> , Physica Scripta T160 , 014014 (2014).	0,384	$0,384/3 = \mathbf{0,128}$
20. Iulia Ghiu and C. Ghiu, <i>The correspondence between mutually unbiased bases and mutually orthogonal extraordinary supersquares</i> , Reports on Mathematical Physics 73 , 49 – 63 (2014).	0,314	$0,314/2 = \mathbf{0,157}$
21. P. Adam, V. A. Andreev, Iulia Ghiu , A. Isar, M. A. Man'ko, and V. I. Man'ko, <i>Finite phase space, Wigner functions, and tomography for two-qubit states</i> , Journal of Russian Laser Research 35 , 427 – 436 (2014).	0,092	$0,092/5,5 = \mathbf{0,017}$
22. P. Marian, Iulia Ghiu , and T. A. Marian, <i>Decay of Gaussian correlations in local thermal reservoirs</i> , Physica Scripta 90 , 074041 (2015).	0,347	$0,347/3 = \mathbf{0,116}$
23. Iulia Ghiu and C. Ghiu, <i>Extraordinary subgroups needed for the construction of mutually unbiased bases for the dimension $d = 8$</i> , Romanian Journal of Physics 60 , 847 – 852 (2015).	0,173	$0,173/2 = \mathbf{0,0865}$
24. Iulia Ghiu , C. Ghiu, and A. Isar, <i>Quantum Chernoff degree of polarization of the Werner state</i> , Proceedings of the Romanian Academy, Series A 16 , 499 – 504 (2015).	0,233	$0,233/3 = \mathbf{0,077}$
25. Iulia Ghiu and Aurelian Isar, <i>The analytical expression of the Chernoff polarization of the Werner state</i> , Romanian Journal of Physics 61 , 768 – 773 (2016).	0,243	$0,243/2 = \mathbf{0,121}$

26. Iulia Ghiu , <i>Entanglement versus quantum degree of polarization</i> , Romanian Reports in Physics 70 , 104 (2018).	0,296	0,296
27. Iulia Ghiu , P. Marian, and T. A. Marian, <i>Modification of polarization through de-Gaussification</i> , Physical Review A 98 , 033826 (2018).	0,829	0,829/3 = 0,276
28. R. Grimaudo, A. Isar, T. Mihaescu, Iulia Ghiu , A. Messina, <i>Dynamics of quantum discord of two coupled spin-1/2's subjected to time-dependent magnetic fields</i> , Results in Physics 13 , 102147 (2019).	0,491	0,491/5 = 0,098
29. Iulia Ghiu , <i>Simultaneous sorting many quDits using different input ports</i> , Quantum Information Processing 18 , 285 (2019).	0,435	0,435
30. A. Croitoru, Iulia Ghiu , A. Isar, <i>Dynamics of quantum coherence in Gaussian open systems</i> , Romanian Reports in Physics 72 , 102 (2020).	0,268	0,268/3 = 0,089
31. Iulia Ghiu , R. Grimaudo, T. Mihaescu, A. Isar, A. Messina, <i>Quantum correlation dynamics in controlled two-coupled-qubit systems</i> , Entropy 22 , 785 (2020).	0,504	0,504/5 = 0,10
32. Iulia Ghiu , <i>Determining the output port from the distance</i> , Romanian Reports in Physics 72 , 115 (2020).	0,268	0,268
33. Iulia Ghiu , <i>The quantum affinity of qubits subjected to noisy quantum channels</i> , Romanian Reports in Physics 73 , 119 (2021).	0,268	0,268

I = 8,5

2.2 Articole in reviste cotate ISI pentru care candidatul este prim autor sau autor corespondent

Trebuie calculata suma scorurilor de influenta absolute (A.I.S.) din anul publicarii articolului in care candidatul este prim autor/ autor corespondent.

Articolul 1: **0,72**
Articolul 2: **1,3**
Articolul 3: **1,2**
Articolul 5: **0,651**
Articolul 7: **1,044**
Articolul 8: **0,695**
Articolul 9: **0,095**
Articolul 10: **0,095**
Articolul 11: **0,104**
Articolul 12: **0,41**
Articolul 13: **0,41**
Articolul 15: **0,133**
Articolul 18: **0,384**

Articolul 19: **0,384**
 Articolul 20: **0,314**
 Articolul 23: **0,173**
 Articolul 24: **0,233**
 Articolul 25: **0,243**
 Articolul 26: **0,296**
 Articolul 27: **0,829**
 Articolul 29: **0,435**
 Articolul 31: **0,504**
 Articolul 32: **0,268**
 Articolul 33: **0,268**

P = 11,188

3. Recunoasterea impactului activitatii

3.1 Citari in reviste stiintifice

Articol	Numarul de citari	Punctaj
Iulia Ghiu , M. Bourennane, and A. Karlsson, <i>Entanglement-assisted local transformations between inequivalent classes of three-particle entangled states</i> , Physics Letters A 287 , 12-18 (2001).	10	$10/3 = 3,33$
Iulia Ghiu , <i>Asymmetric quantum telecloning of d-level systems and broadcasting of entanglement to different locations using the "many-to-many" communication protocol</i> , Physical Review A 67 , 012323 (2003).	57	57
Iulia Ghiu and A. Karlsson, <i>Broadcasting of entanglement at a distance using linear optics and telecloning of entanglement</i> , Physical Review A 72 , 032331 (2005).	11	$11/2 = 5,5$
M. Boca, Iulia Ghiu , P. Marian, and T. A. Marian, <i>Quantum Chernoff bound as a measure of nonclassicality for one-mode Gaussian states</i> , Physical Review A 79 , 014302 (2009).	9	$9/2 = 4,5$
Iulia Ghiu , <i>Local transformations of superpositions of entangled states</i> , Physics Letters A 373 , 922-926 (2009).	1	1
G. Björk, J. Söderholm, L. L. Sanchez-Soto, A. B. Klimov, Iulia Ghiu , P. Marian, and T. A. Marian, <i>Quantum degrees of polarization</i> , Optics Communications 283 , 4440 – 4447 (2010).	39	$39/6 = 6,5$

Iulia Ghiu , G. Björk, P. Marian, and T. A. Marian, <i>Probing light polarization with the quantum Chernoff bound</i> , Physical Review A 82 , 023803 (2010).	12	$12/4 = 3$
Iulia Ghiu , <i>Comment on Entanglement transformation between two-qubit mixed states by LOCC</i> , Physics Letters A 374 , 4633 (2010).	1	1
Iulia Ghiu , <i>A new method of construction of all sets of mutually unbiased bases for two-qubit systems</i> , Journal of Physics: Conference Series 338 , 012008 (2012).	5	5
Iulia Ghiu , <i>Non-optimal cloning of qubits at a distance</i> , Proceedings of the Romanian Academy, Series A 13 , 42 – 45 (2012).	1	1
Iulia Ghiu , <i>Asymmetric telecloning using non-maximally entangled channels</i> , Romanian Reports in Physics 65 , 721–727 (2013).	1	1
Iulia Ghiu , <i>Generation of all sets of mutually unbiased bases for three-qubit systems</i> , Physica Scripta T153 , 014027 (2013).	10	10
Iulia Ghiu , P. Marian, and T. A. Marian, <i>Measures of non-Gaussianity for one-mode field states</i> , Physica Scripta T153 , 014028 (2013).	21	$21/3 = 7$
P. Marian, Iulia Ghiu , and T. A. Marian, <i>Gaussification through decoherence</i> , Physical Review A 88 , 012316 (2013).	18	$18/3 = 6$
C. Ghiu and Iulia Ghiu , <i>Construction of the mutually orthogonal extraordinary supersquares</i> , Central European Journal of Mathematics 12 , 337 – 348 (2014).	2	$2/2 = 1$
P. Adam, V. A. Andreev, Iulia Ghiu , A. Isar, M. A. Man'ko, and V. I. Man'ko, <i>Wigner functions and spin tomograms for qubit states</i> , Journal of Russian Laser Research 35 , 3 – 13 (2014).	12	$12/5,5 = 2,18$
Iulia Ghiu , <i>Quantum Chernoff bound as a measure of efficiency of quantum cloning for mixed states</i> , Physica Scripta T160 , 014013 (2014).	6	6
Iulia Ghiu , P. Marian, and T. A. Marian, <i>Loss of non-Gaussianity for damped photon-subtracted thermal states</i> , Physica Scripta T160 , 014014 (2014).	10	$10/3 = 3,33$
Iulia Ghiu and C. Ghiu, <i>The correspondence between mutually unbiased bases and mutually orthogonal extraordinary supersquares</i> , Reports on Mathematical Physics 73 , 49 – 63 (2014).	3	$3/2 = 1,5$
P. Adam, V. A. Andreev, Iulia Ghiu , A. Isar, M. A. Man'ko, and V. I. Man'ko, <i>Finite phase space, Wigner functions, and tomography for two-qubit states</i> , Journal of Russian Laser Research 35 , 427 – 436 (2014).	8	$8/5,5 = 1,45$

P. Marian, Iulia Ghiu , and T. A. Marian, <i>Decay of Gaussian correlations in local thermal reservoirs</i> , Physica Scripta 90 , 074041 (2015).	10	$10/3 = 3,33$
Iulia Ghiu , C. Ghiu, and A. Isar, <i>Quantum Chernoff degree of polarization of the Werner state</i> , Proceedings of the Romanian Academy, Series A 16 , 499 – 504 (2015).	3	$3/3 = 1$
Iulia Ghiu and Aurelian Isar, <i>The analytical expression of the Chernoff polarization of the Werner state</i> , Romanian Journal of Physics 61 , 768 – 773 (2016).	12	$12/2 = 6$
Iulia Ghiu , <i>Entanglement versus quantum degree of polarization</i> , Romanian Reports in Physics 70 , 104 (2018).	2	2
Iulia Ghiu , P. Marian, and T. A. Marian, <i>Modification of polarization through de-Gaussification</i> , Physical Review A 98 , 033826 (2018).	2	$2/3 = 0,67$
R. Grimaudo, A. Isar, T. Mihaescu, Iulia Ghiu , A. Messina, <i>Dynamics of quantum discord of two coupled spin-1/2's subjected to time-dependent magnetic fields</i> , Results in Physics 13 , 102147 (2019).	5	$5/5 = 1$
Iulia Ghiu , <i>Simultaneous sorting many quDits using different input ports</i> , Quantum Information Processing 18 , 285 (2019)	1	1
A. Croitoru, Iulia Ghiu , A. Isar, <i>Dynamics of quantum coherence in Gaussian open systems</i> , Romanian Reports in Physics 72 , 102 (2020).	4	$4/3 = 1,33$
Iulia Ghiu , R. Grimaudo, T. Mihaescu, A. Isar, A. Messina, <i>Quantum correlation dynamics in controlled two-coupled-qubit systems</i> , Entropy 22 , 785 (2020).	2	$2/5 = 0,4$

C = 144,02

3.2 Indicele Hirsch

h = 12.

Lista articolelor care citeaza articolele scrise de I. Ghiu (autocitarile fiind exclude)

♦ **Articolul Iulia Ghiu, M. Bourennane, and A. Karlsson, *Entanglement-assisted local transformations between inequivalent classes of three-particle entangled states*, Physics Letters A **287**, 12-18 (2001).**

Număr de citări (autocitățile sunt exclude): 10 citări.

Este citat in:

1. Conditions for coherence transformations under incoherent operations

By: Du, Shuanping; Bai, Zhaofang; Guo, Yu

PHYSICAL REVIEW A Volume: 91 Issue: 5 Article Number: 052120 Published: MAY 27 2015

2. TELEPORTING AN ARBITRARY TWO-PARTICLE STATE VIA W OR W-LIKE STATE

By: Hu Ke-Xiang; Wang Yan-Wei; Jin Bai-Qi; et al.

INTERNATIONAL JOURNAL OF QUANTUM INFORMATION Volume: 6 Issue: 5 Pages: 1041-1049
Published: 2008

3. Remote preparation of a two-particle entangled state by a bipartite entangled state and a tripartite entangled W state

By: Xiao Xiao-Qi; Liu Jin-Ming

COMMUNICATIONS IN THEORETICAL PHYSICS Volume: 47 Issue: 2 Pages: 247-252 Published: 2007

4. Experimental observation of four-photon entangled Dicke state with high fidelity

By: Kiesel, N.; Schmid, C.; Toth, G.; et al.

PHYSICAL REVIEW LETTERS Volume: 98 Issue: 6 Article Number: 063604 Published: 2007

5. Multiphoton entanglement engineering via projective measurements - art. no. 67800E

By: Schmid, Christian; Kiesel, Nikolai; Wieczorek, Witlef; et al.

Edited by: Arakawa, Y; Sasaki, M; Sotobayashi, H

Conference: Conference on Quantum Communications Realized Location: Boston, MA Date: SEP 10-12, 2007
Sponsor(s): SPIE

QUANTUM COMMUNICATIONS REALIZED Book Series: PROCEEDINGS OF THE SOCIETY OF PHOTO-OPTICAL INSTRUMENTATION ENGINEERS (SPIE) Volume: 6780 Pages: E7800-E7800
Published: 2007

6. Probabilistic teleportation of a three-particle GHZ state via two three-particle entangled W states

By: Lin, X; Li, HC

COMMUNICATIONS IN THEORETICAL PHYSICS Volume: 45 Issue: 6 Pages: 1018-1022 Published: 2006

7. Probabilistic teleportation of an arbitrary two-particle state by two partial three-particle entangled W states

By: Dai, HY; Chen, PX; Li, CZ

JOURNAL OF OPTICS B-QUANTUM AND SEMICLASSICAL OPTICS Volume: 6 Issue: 1 Pages: 106-109
Article Number: PII S1464-4266(04)66461-5 Published: 2004

8. Quantum teleportation via a W state

By: Joo, J; Park, YJ; Oh, S; et al.

NEW JOURNAL OF PHYSICS Volume: 5 Article Number: 136 Published: 2003

9. Probabilistic teleportation of the three-particle entangled state by the partial three-particle entangled state and the three-particle entangled W state

By: Dai, HY; Li, CZ; Chen, PX

CHINESE PHYSICS LETTERS Volume: 20 Issue: 8 Pages: 1196-1198 Published: 2003

10. Teleportation of an unknown state by W state

By: Shi, BS; Tomita, A

PHYSICS LETTERS A Volume: 296 Issue: 4-5 Pages: 161-164 Article Number: PII S0375-9601(02)00257-8 Published: 2002.

◆ **Articolul Iulia Ghiu**, *Asymmetric quantum telecloning of d-level systems and broadcasting of entanglement to different locations using the "many-to-many" communication protocol*, *Physical Review A* **67**, 012323 (2003).

Număr de citări (autocitările sunt excluse): **57 citări**.

Este citat in:

- 1.** Broadcasting of entanglement via orthogonal and non-orthogonal state-dependent cloners
By: Shukla, Manish Kumar; Chakrabarty, Indranil; Chatterjee, Sourav
QUANTUM INFORMATION PROCESSING Volume: 19 Issue: 1 Article Number: 15 Published: JAN 2020
- 2.** Broadcasting of quantum correlations in qubit-qudit systems
By: Mundra, Rounak; Patel, Dhruvil; Chakrabarty, Indranil; et al.
PHYSICAL REVIEW A Volume: 100 Issue: 4 Article Number: 042319 Published: OCT 18 2019
- 3.** Asymmetric broadcasting of quantum correlations
By: Jain, Aditya; Chakrabarty, Indranil; Chatterjee, Sourav
PHYSICAL REVIEW A Volume: 99 Issue: 2 Article Number: 022315 Published: FEB 13 2019
- 4.** An economical state-dependent telecloning for a multiparticle GHZ state
By: Meng, Fan-Xu; Yu, Xu-Tao; Zhang, Zai-Chen
QUANTUM INFORMATION PROCESSING Volume: 17 Issue: 3 Article Number: UNSP 66
Published: MAR 2018
- 5.** PROCEEDINGS OF THE ROMANIAN ACADEMY - SERIES A: AN ACCOUNT OF THE PHYSICS SECTION
By: Mihalache, D.; Baran, V; Nicolin, A., I
ROMANIAN REPORTS IN PHYSICS Volume: 70 Issue: 3 Article Number: 113 Published: 2018
- 6.** THE FIRST SEVENTY VOLUMES OF ROMANIAN REPORTS IN PHYSICS: A BRIEF SURVEY OF THE ROMANIAN PHYSICS COMMUNITY
By: Vlad, V. I.; Baran, V.; Nicolin, A. I.; et al.
ROMANIAN REPORTS IN PHYSICS Volume: 70 Issue: 1 Article Number: 101 Published: 2018
- 7.** Economical phase-covariant quantum telecloning of a single polarization photon via quantum nondemolition detection
By: Rui, Pinshu; Zhang, Wen; Liao, Yanlin; et al.
EUROPEAN PHYSICAL JOURNAL D Volume: 71 Issue: 5 Article Number: 107 Published: MAY 18 2017
- 8.** Complementarity between tripartite quantum correlation and bipartite Bell-inequality violation in three-qubit states
By: Pandya, Palash; Misra, Avijit; Chakrabarty, Indranil
PHYSICAL REVIEW A Volume: 94 Issue: 5 Article Number: 052126 Published: NOV 22 2016
- 9.** Broadcasting of quantum correlations: Possibilities and impossibilities
By: Chatterjee, Sourav; Sazim, Sk; Chakrabarty, Indranil
PHYSICAL REVIEW A Volume: 93 Issue: 4 Article Number: 042309 Published: APR 7 2016
- 10.** Controlled Remote Information Concentration via Non-Maximally Entangled GHZ-Type States
By: Wang, Jinwei; Shu, Lan; Mo, Zhiwen
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS Volume: 55 Issue: 2 Pages: 746-753
Published: FEB 2016
- 11.** Implementing a quantum cloning machine in separate cavities via the optical coherent pulse as a quantum communication bus
By: Zhu, Meng-Zheng; Ye, Liu
PHYSICAL REVIEW A Volume: 91 Issue: 4 Article Number: 042319 Published: APR 14 2015
- 12.** On state versus channel quantum extension problems: exact results for UXUXU symmetry
By: Johnson, Peter D.; Viola, Lorenza
JOURNAL OF PHYSICS A: MATH. AND THEORET. Volume: 48, Article number: 035307 Published: 2015
- 13.** Distribution of quantum Fisher information in asymmetric cloning machines
By: Xiao, Xing; Yao, Yao; Zhou, Lei-Ming; et al.
SCIENTIFIC REPORTS Volume: 4 Article Number: 7361 Published: DEC 8 2014

- 14. Quantum cloning machines and the applications**
By: Fan, Heng; Wang, Yi-Nan; Jing, Li; Yue, Jie-Dong; Shi, Han-Duo; Zhang, Yong-Liang; Mu, Liang-Zhu
PHYSICS REPORTS Volume: 544 Pages: 241-322 Published: 2014
- 15. Faithful Remote Information Concentration Based on the Optimal Universal $1 \rightarrow 2$ Telecloning of Arbitrary Two-Qubit States**
By: Peng, Jia-Yin; Lei, Hong-Xuan; Mo, Zhi-Wen
INTERNATIONAL JOURNAL OF THEORETICAL PHYSICS Volume: 53 Issue: 5 Pages: 1637-1647
Published: 2014
- 16. Three schemes of remote information concentration based on ancilla-free phase-covariant telecloning**
By: Bai, Ming-qiang; Peng, Jia-Yin; Mo, Zhi-Wen
QUANTUM INFORMATION PROCESSING Volume: 13 Issue: 5 Pages: 1067-1083 Published: 2014
- 17. MANY-TO-ONE REMOTE INFORMATION CONCENTRATION FOR QUDITS AND MULTIPARTITE ENTANGLEMENT**
By: Wang, Xin-Wen; Tang, Shi-Qing; Xie, Li-Jun; et al.
QUANTUM INFORMATION & COMPUTATION Volume: 14 Issue: 1-2 Pages: 122-136 Published: 2014
- 18. Quantum cloning machines and their implementation in physical systems**
By: Wu Tao; Fang Bao-Long; Ye Liu
CHINESE PHYSICS B Volume: 22 Issue: 11 Article Number: 110311 Published: 2013
- 19. Remote information concentration via state: reverse of ancilla-free phase-covariant telecloning**
By: Peng, Jia-Yin; Bai, Ming-qiang; Mo, Zhi-Wen
QUANTUM INFORMATION PROCESSING Volume: 12 Issue: 11 Pages: 3511-3525 Published: 2013
- 20. REMOTE INFORMATION CONCENTRATION VIA FOUR-PARTICLE CLUSTER STATE AND BY POSITIVE OPERATOR-VALUE MEASUREMENT**
By: Peng, Jia-Yin; Luo, Ming-Xing; Mo, Zhi-Wen
INTERNATIONAL JOURNAL OF MODERN PHYSICS B Volume: 27 Issue: 18 Article Number: 1350091 Published: 2013
- 21. Optimal cloning of two known nonorthogonal quantum states**
By: Zhang, Wen-Hai; Yu, Long-Bao; Cao, Zhuo-Liang; et al.
PHYSICAL REVIEW A Volume: 86 Issue: 2 Article Number: 022322 Published: 2012
- 22. Teleportation of a 3-dimensional GHZ State**
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Toate criteriile prevăzute în standardele minimale CNATDCU sunt indeplinite.

15 Iulie 2021

Conferentiar dr. Iulia Ghiu