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VR 1.0

PT J

AU Jagadish, V
Srikanth, R
Petruccione, F

AF Jagadish, Vinayak
Srikanth, R.
Petruccione, Francesco

TI Convex combinations of CP-divisible Pauli channels that are not semigroups

WR [View Full Record in Web of Science](#)

SO PHYSICS LETTERS A

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TC 1

Z9 1

PD DEC 17

PY 2020

VL 384

IS 35

AR 126907

DI 10.1016/j.physleta.2020.126907

DL <http://dx.doi.org/10.1016/j.physleta.2020.126907>

ER

PT J
AU Kastner, M
Menet, V
Kriel, JN
AF Kastner, Michael
Menet, Vincent
Kriel, Johannes N.
TI Integrable active atom interferometry
WR [View Full Record in Web of Science](#)
SO NEW JOURNAL OF PHYSICS
C1 [Kastner, Michael] Natl Inst Theoret Phys NITheP, ZA-7600 Stellenbosch, South Africa.
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TC 0
Z9 0
PD DEC
PY 2020
VL 22
IS 12
AR 123044
DI 10.1088/1367-2630/abd35d
DL <http://dx.doi.org/10.1088/1367-2630/abd35d>
ER

PT J
AU Diener, JPW
Scholtz, FG
AF Diener, J. P. W.
Scholtz, F. G.
TI Spin-polarized ferromagnetic state of a cold Fermi gas
WR [View Full Record in Web of Science](#)
SO PHYSICAL REVIEW C
C1 [Diener, J. P. W.] Botswana Int Univ Sci & Technol BIUST, Palapye, Botswana.
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TC 0
Z9 0
PD NOV 18
PY 2020

VL 102
IS 5
AR 055805
DI 10.1103/PhysRevC.102.055805
DL <http://dx.doi.org/10.1103/PhysRevC.102.055805>
ER

PT J
AU Ranwaha, T
Elegbeleye, I
Maluta, N
Maphanga, R
AF Ranwaha, Tshifhiwa
Elegbeleye, Ife
Maluta, Nnditshedzeni
Maphanga, Rapela
TI Optical and electronic properties of croconates dye molecules adsorbed on TiO₂ brookite nanocluster for dye sensitized solar cells application
WR [View Full Record in Web of Science](#)
SO MATERIALS EXPRESS
C1 [Ranwaha, Tshifhiwa; Elegbeleye, Ife; Maluta, Nnditshedzeni] Univ Venda, Phys Dept, ZA-0950 Thohoyandou, Limpopo, South Africa.
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RP Maluta, N (corresponding author), Univ Venda, Phys Dept, ZA-0950 Thohoyandou, Limpopo, South Africa.; Maluta, N (corresponding author), Natl Inst Theoret Phys NITheP, ZA-2000 Gauteng, South Africa.
TC 0
Z9 0
PD NOV
PY 2020
VL 10
IS 11
BP 1917
EP 1924
DI 10.1166/mex.2020.1848
DL <http://dx.doi.org/10.1166/mex.2020.1848>
ER

PT J
AU Latune, CL
Sinayskiy, I
Petruccione, F
AF Latune, C. L.
Sinayskiy, I
Petruccione, F.
TI Negative contributions to entropy production induced by quantum coherences
WR [View Full Record in Web of Science](#)

SO PHYSICAL REVIEW A

C1 [Latune, C. L.; Sinayskiy, I; Petruccione, F.] Univ KwaZulu Natal, Sch Chem & Phys, Quantum Res Grp, ZA-4001 Durban, Kwazulu Natal, South Africa.

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TC 0

Z9 0

PD OCT 21

PY 2020

VL 102

IS 4

AR 042220

DI 10.1103/PhysRevA.102.042220

DL <http://dx.doi.org/10.1103/PhysRevA.102.042220>

ER

PT J

AU Brustein, R
Medved, AJM

AF Brustein, Ram
Medved, A. J. M.

TI Correspondence between strings in the Hagedorn phase and asymptotically de Sitter space

WR [View Full Record in Web of Science](#)

SO PHYSICAL REVIEW D

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TC 0

Z9 0

PD OCT 6

PY 2020

VL 102

IS 8

AR 086002

DI 10.1103/PhysRevD.102.086002

DL <http://dx.doi.org/10.1103/PhysRevD.102.086002>

ER

PT J

AU Phehlukwayo, SP
Umuhire, ML
Ismail, Y
Joshi, S
Petruccione, F

AF Phehlukwayo, Samukelisiwe Purity
Umuhire, Marie Louise
Ismail, Yaseera
Joshi, Stuti
Petruccione, Francesco

TI Influence of coincidence detection of a biphoton state through free-space atmospheric turbulence using a partially spatially coherent pump

WR [View Full Record in Web of Science](#)

SO PHYSICAL REVIEW A

C1 [Phehlukwayo, Samukelisiwe Purity; Umuhire, Marie Louise; Ismail, Yaseera; Petruccione, Francesco] Univ KwaZulu Natal, Sch Chem & Phys, Quantum Res Grp, ZA-4001 Durban, South Africa.
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TC 1

Z9 1

PD SEP 30

PY 2020

VL 102

IS 3

AR 033732

DI 10.1103/PhysRevA.102.033732

DL <http://dx.doi.org/10.1103/PhysRevA.102.033732>

ER

PT J

AU Louw, JC
Kastner, M
Kriel, JN

AF Louw, Jan C.
Kastner, Michael
Kriel, Johannes N.

TI Bosonic representation of a Lipkin-Meshkov-Glick model with Markovian dissipation

WR [View Full Record in Web of Science](#)

SO PHYSICAL REVIEW B

C1 [Louw, Jan C.; Kastner, Michael; Kriel, Johannes N.] Univ Stellenbosch, Inst Theoret Phys, Dept Phys, ZA-7600 Stellenbosch, South Africa.
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TC 0
Z9 0
PD SEP 23
PY 2020
VL 102
IS 9
AR 094430
DI 10.1103/PhysRevB.102.094430
DL <http://dx.doi.org/10.1103/PhysRevB.102.094430>
ER

PT J
AU Fichtner, H
Kleimann, J
Yoon, PH
Scherer, K
Oughton, S
Engelbrecht, NE
AF Fichtner, Horst
Kleimann, Jens
Yoon, Peter H.
Scherer, Klaus
Oughton, Sean
Engelbrecht, N. Eugene
TI On the Generation of Compressible Mirror-mode Fluctuations in the Inner Heliosheath
WR [View Full Record in Web of Science](#)
SO ASTROPHYSICAL JOURNAL
C1 [Fichtner, Horst; Kleimann, Jens; Scherer, Klaus] Ruhr Univ Bochum, Inst Theoret Phys 4, D-44780 Bochum, Germany.
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TC 1
Z9 1
PD SEP
PY 2020
VL 901
IS 1
AR 76
DI 10.3847/1538-4357/abaf52

DL <http://dx.doi.org/10.3847/1538-4357/abaf52>

ER

PT J

AU Bizet, NC
Damian, C
Loaiza-Brito, O
Pena, DKM
Montanez-Barrera, JA

AF Bizet, Nana Cabo
Damian, Cesar
Loaiza-Brito, Oscar
Mayorga Pena, Damian Kaloni
Montanez-Barrera, J. A.

TI Testing swampland conjectures with machine learning

WR [View Full Record in Web of Science](#)

SO EUROPEAN PHYSICAL JOURNAL C

C1 [Bizet, Nana Cabo] Univ Guanajuato, Dept Fis, Loma Bosque 103 Col Lomas Campestre, Guanajuato 37150, Mexico.
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TC 0

Z9 0

PD AUG 24

PY 2020

VL 80

IS 8

AR 766

DI 10.1140/epjc/s10052-020-8332-9

DL <http://dx.doi.org/10.1140/epjc/s10052-020-8332-9>

ER

PT J

AU Kastner, M

AF Kastner, Michael

TI Ancilla-assisted probing of temporal quantum correlations of large spins

WR [View Full Record in Web of Science](#)

SO PHYSICAL REVIEW A

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TC 0

Z9 0

PD AUG 13

PY 2020

VL 102

IS 2

AR 022212

DI 10.1103/PhysRevA.102.022212

DL <http://dx.doi.org/10.1103/PhysRevA.102.022212>

ER

PT J

AU Latune, CL
Sinayskiy, I
Petruccione, F

AF Latune, C. L.
Sinayskiy, I
Petruccione, F.

TI Collective heat capacity for quantum thermometry and quantum engine enhancements

WR [View Full Record in Web of Science](#)

SO NEW JOURNAL OF PHYSICS

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TC 3

Z9 3

PD AUG

PY 2020

VL 22

IS 8

AR 083049

DI 10.1088/1367-2630/aba463

DL <http://dx.doi.org/10.1088/1367-2630/aba463>

ER

PT J

AU Kemp, G
Sinayskiy, I
Petruccione, F

AF Kemp, Garreth
Sinayskiy, Ilya
Petruccione, Francesco

TI Lazy open quantum walks

WR [View Full Record in Web of Science](#)

SO PHYSICAL REVIEW A

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TC 0

Z9 0

PD JUL 27

PY 2020

VL 102

IS 1

AR 012220

DI 10.1103/PhysRevA.102.012220

DL <http://dx.doi.org/10.1103/PhysRevA.102.012220>

ER

PT J

AU Park, DK
Blank, C
Petruccione, F

AF Park, Daniel K.
Blank, Carsten
Petruccione, Francesco

TI The theory of the quantum kernel-based binary classifier

WR [View Full Record in Web of Science](#)

SO PHYSICS LETTERS A

C1 [Park, Daniel K.] Korea Adv Inst Sci & Technol, Sch Elect Engr, Daejeon 34141, South Korea.
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TC 0

Z9 0

PD JUL 27

PY 2020
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IS 21
AR 126422
DI 10.1016/j.physleta.2020.126422
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ER

PT J
AU Badveli, R
Jagadish, V
Srikanth, R
Petruccione, F
AF Badveli, Revanth
Jagadish, Vinayak
Srikanth, R.
Petruccione, Francesco
TI Compressed-sensing tomography for qudits in Hilbert spaces of non-power-of-two dimensions
WR [View Full Record in Web of Science](#)
SO PHYSICAL REVIEW A
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TC 0
Z9 0
PD JUN 22
PY 2020
VL 101
IS 6
AR 062328
DI 10.1103/PhysRevA.101.062328
DL <http://dx.doi.org/10.1103/PhysRevA.101.062328>
ER

PT J
AU Brustein, R
Medved, AJM
AF Brustein, Ram
Medved, A. J. M.
TI Maximal-entropy initial state of the Universe as a microscopic description of inflation

WR [View Full Record in Web of Science](#)

SO PHYSICAL REVIEW D

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TC 1

Z9 1

PD JUN 2

PY 2020

VL 101

IS 12

AR 123502

DI 10.1103/PhysRevD.101.123502

DL <http://dx.doi.org/10.1103/PhysRevD.101.123502>

ER

PT J

AU Jagadish, V
Srikanth, R
Petruccione, F

AF Jagadish, Vinayak
Srikanth, R.
Petruccione, Francesco

TI Convex combinations of Pauli semigroups: Geometry, measure, and an application

WR [View Full Record in Web of Science](#)

SO PHYSICAL REVIEW A

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TC 3

Z9 3

PD JUN 1

PY 2020

VL 101

IS 6

AR 062304
DI 10.1103/PhysRevA.101.062304
DL <http://dx.doi.org/10.1103/PhysRevA.101.062304>
ER

PT J
AU Nickelsen, D
Kastner, M
AF Nickelsen, Daniel
Kastner, Michael
TI Modelling equilibration of local many-body quantum systems by random graph ensembles
WR [View Full Record in Web of Science](#)
SO QUANTUM
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TC 0
Z9 0
PD MAY 25
PY 2020
VL 4
ER

PT J
AU Blank, C
Park, DK
Rhee, JKK
Petruccione, F
AF Blank, Carsten
Park, Daniel K.
Rhee, June-Koo Kevin
Petruccione, Francesco
TI Quantum classifier with tailored quantum kernel
WR [View Full Record in Web of Science](#)
SO NPJ QUANTUM INFORMATION
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TC 4

Z9 4

PD MAY 15

PY 2020

VL 6

IS 1

AR 41

DI 10.1038/s41534-020-0272-6

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ER

PT J

AU Moloto, KD
Engelbrecht, NE

AF Moloto, K. D.
Engelbrecht, N. Eugene

TI A Fully Time-dependent Ab Initio Cosmic-Ray Modulation Model Applied to Historical Cosmic-Ray Modulation

WR [View Full Record in Web of Science](#)

SO ASTROPHYSICAL JOURNAL

C1 [Moloto, K. D.; Engelbrecht, N. Eugene] North West Univ, Ctr Space Res, ZA-2522 Potchefstroom, South Africa.
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TC 3

Z9 3

PD MAY

PY 2020

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IS 2

AR 121

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ER

PT J

AU Dempers, N
Engelbrecht, NE

AF Dempers, Nadine
Engelbrecht, N. Eugene

TI On the effects of dynamical turbulence on the perpendicular diffusion of low-energy cosmic ray electrons

WR [View Full Record in Web of Science](#)
SO ADVANCES IN SPACE RESEARCH
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TC 2
Z9 2
PD APR 15
PY 2020
VL 65
IS 8
BP 2072
EP 2079
DI 10.1016/j.asr.2020.01.040
DL <http://dx.doi.org/10.1016/j.asr.2020.01.040>
ER

PT J
AU Diener, JPW
Scholtz, FG
AF Diener, J. P. W.
Scholtz, F. G.
TI Role of the vacuum energy in the thermodynamics of neutron matter
WR [View Full Record in Web of Science](#)
SO PHYSICAL REVIEW C
C1 [Diener, J. P. W.] BIUST, Palapye, Botswana.
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TC 1
Z9 1
PD MAR 30
PY 2020
VL 101
IS 3
AR 035808
DI 10.1103/PhysRevC.101.035808
DL <http://dx.doi.org/10.1103/PhysRevC.101.035808>
ER

PT J
AU Badveli, R
Jagadish, V

Akshaya, S
Srikanth, R
Petruccione, F

AF Badveli, R.
Jagadish, V
Akshaya, S.
Srikanth, R.
Petruccione, F.

TI Dynamics of Quantum Correlations in a Qubit-Oscillator System Interacting via a Dissipative Bath

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SO OPEN SYSTEMS & INFORMATION DYNAMICS

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TC 0

Z9 0

PD MAR

PY 2020

VL 27

IS 1

AR 2050004

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DL <http://dx.doi.org/10.1142/S1230161220500043>

ER

PT J

AU Goldstein, K
Jejjala, V
Lei, Y
van Leuven, S
Li, W

AF Goldstein, Kevin
Jejjala, Vishnu
Lei, Yang
van Leuven, Sam
Li, Wei

TI Probing the EVH limit of supersymmetric AdS black holes

WR [View Full Record in Web of Science](#)

SO JOURNAL OF HIGH ENERGY PHYSICS

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TC 4

Z9 4

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PY 2020

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AR 154

DI 10.1007/JHEP02(2020)154

DL [http://dx.doi.org/10.1007/JHEP02\(2020\)154](http://dx.doi.org/10.1007/JHEP02(2020)154)

ER

PT J

AU Semin, V
Petruccione, F

AF Semin, Vitalii
Petruccione, Francesco

TI Dynamical and thermodynamical approaches to open quantum systems

WR [View Full Record in Web of Science](#)

SO SCIENTIFIC REPORTS

C1 [Semin, Vitalii] Samara Natl Res Univ, Samara 443081, Russia.

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Z9 1

PD FEB 13

PY 2020

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IS 1

AR 2607

DI 10.1038/s41598-020-59241-7

DL <http://dx.doi.org/10.1038/s41598-020-59241-7>

ER

PT J

AU Giraldi, F

AF Giraldi, Filippo

TI Evolution of quantum coherence induced by band gaps and initial-state preparation measurements

WR [View Full Record in Web of Science](#)
SO INTERNATIONAL JOURNAL OF QUANTUM INFORMATION
CT Conference on From Foundations of Quantum Mechanics to Quantum Information and Quantum Metrology and Sensing (Quantum)
CY MAY 26-JUN 01, 2019
CL Torino, ITALY
C1 [Giraldi, Filippo] Univ KwaZulu Natal, Sch Chem & Phys, Westville Campus, ZA-4000 Durban, South Africa.
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Z9 0
PD FEB
PY 2020
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IS 1
SI SI
AR 1941018
DI 10.1142/S0219749919410181
DL <http://dx.doi.org/10.1142/S0219749919410181>
ER

PT J
AU Scholtz, FG
Williams, PH
Kriel, JN
AF Scholtz, F. G.
Williams, P. H.
Kriel, J. N.
TI Commutative-non-commutative dualities
WR [View Full Record in Web of Science](#)
SO CANADIAN JOURNAL OF PHYSICS
C1 [Scholtz, F. G.] Natl Inst Theoret Phys NITheP, ZA-7602 Stellenbosch, South Africa.
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Z9 0
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