

PUBLICATIONS

BOOKS

- V. Scarani, *BELL NONLOCALITY* (Oxford University Press, 2019)
- V. Scarani, L. Chua, S. Liu, *SIX QUANTUM PIECES* (World Scientific, Singapore, 2010)
 - Chinese translation: 六堂量子資訊課 (Taiwan, 2012)
- V. Scarani, *QUANTUM PHYSICS: A FIRST ENCOUNTER* (Oxford University Press, Oxford, 2006)
 - Original French: *INITIATION À LA PHYSIQUE QUANTIQUE* (Vuibert, Paris, 2003; 3rd edition 2006)
 - German translation: *PHYSIK IN QUANTEN* (Spektrum Akademischer Verlag, Berlin, 2007)
 - Spanish translation: *FÍSICA CUÁNTICA* (Hyperion, 2016)

CHAPTERS IN BOOKS

- S. Seah, S. Nimmrichter, A. Roulet, V. Scarani, *Quantum rotor engines*, in: F. Binder, L.A. Correa, C. Gogolin, J. Anders, G. Adesso, *Thermodynamics in the Quantum Regime* (Springer Verlag, 2018). Preprint available as arXiv:1804.11023
- V. Scarani, *The universe would not be perfect without randomness: a quantum physicist's reading of Aquinas*, in: R. Bertlmann, A. Zeilinger (eds), *Quantum [Un]speakables II* (Springer Verlag, 2017). Preprint available as arXiv:1501.00769.
- J.F. Fitzsimons, E.G. Rieffel, V. Scarani, *The Quantum Frontier*, in: J. Zander, P.J. Mosterman (eds), *Computation for Humanity – Information Technology to Advance Society* (CRC Press, Boca Raton, 2014). Preprint available as arXiv:1206.0785.
- M. Pawłowski, V. Scarani, *Information causality*, in: R. Spekkens and G. Chiribella (eds), *Quantum theory: informational foundations and foils* (Springer Verlag, Dordrecht, 2016). Preprint available as arXiv:1112.1142.
- V. Scarani, *Quantum information: primitive notions and quantum correlations*, in: C. Miniatura et al. (eds), *Ultracold Gases and Quantum Information – Les Houches 2009 session XCI* (Oxford University Press, Oxford, 2011), pages 105-177. Preprint available as arXiv:0910.4222

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- V. Scarani, *Review of: Quantum Computing : A Gentle Introduction by E. Rieffel and W. Polak, MIT Press 2011*, in: *Physics Today*, **65(2)**, page 53, February 2012.
- V. Scarani, *Plaidoyer pour le vrai hasard*, in: J.-F. Dars, A. Papillaut, *Le plus grand des hasards : surprises quantiques* (Belin, Paris, 2010)
- V. Scarani, *Guaranteed randomness*, *News and Views, Nature* **464**, 988 (2010)
- N. Gisin, V. Scarani, *Le problème de la mesure: une question de physique*, *Science et Avenir Hors Série* **148**, Oct/Nov 2006

PATENTS

"Quantum Cryptography Protocol", PCT Patent Application, WO2004047359; US Patent US 7,359,513 B2

PEER-REVIEWED ARTICLES

#	YEAR	AUTHORS	TITLE	PUBLISHED REFERENCE	PREPRINT
162	2020	F. Buscemi, V. Scarani	Fluctuation theorems from Bayesian retrodiction		arXiv:2009.02849
161	2020	Y. Cai, B. Yu, P. Jayachandran, N. Brunner, V. Scarani, J.-D. Bancal	Entanglement for any definition of two subsystems		arXiv:2006.07165
160	2020	R. Schwonnek, K.T. Goh, I.W. Primaatmaja, E.Y.Z. Tan, R. Wolf, V. Scarani, C.C.W. Lim	Robust device-independent quantum key distribution		arXiv:2005.02691
159	2020	M. Dall'Arno, A. Ho, F. Buscemi, V. Scarani	Data-driven inference and observational completeness of quantum devices		arXiv:1905.04896
158	2020	A. Shu, S. Seah, V. Scarani	Surpassing the thermal Cramér-Rao bound with collisional thermometry	Phys. Rev. A 102 , 042417	arXiv:2008.09319
157	2020	L.P. Thinh, M. Dall'Arno, V. Scarani	Worst-case Quantum Hypothesis Testing with Separable Measurements	Quantum 4 , 320	arXiv:1910.10954
156	2020	M. Dall'Arno, F. Buscemi, V. Scarani	Extension of the Alberti-Uhlmann criterion beyond qubit dichotomies	Quantum 4 , 233	arXiv:1910.04294
155	2020	S. Seah, S. Nimmrichter, V. Scarani	Maxwell's lesser demon	Phys. Rev. Lett. 124 , 100603	arXiv:1908.10102
154	2020	C. Aw, M. Dall'Arno, V. Scarani	Knowledge by direct measurement versus inference from steering	Quantum Stud.: Math. Found. 7 , 247	arXiv:1904.07529
153	2019	S. Seah, S. Nimmrichter, D. Grimmer, J.P. Santos, V. Scarani, G.T. Landi	Collisional quantum thermometry	Phys. Rev. Lett. 123 , 180602	arXiv:1904.12551
152	2019	A. Shu, Y. Cai, S. Seah, S. Nimmrichter, V. Scarani	Almost thermal operations: inhomogeneous reservoirs	Phys. Rev. A 100 , 042107	arXiv:1904.08736
151	2019	K.T. Goh, C. Perumangatt, Z.X. Lee, A. Ling, V. Scarani	Experimental comparison of tomography and self-testing in certifying entanglement	Phys. Rev. A 100 , 022305	arXiv:1901.10127
150	2019	Z. Liu, J. Leong, S. Nimmrichter, V. Scarani	Quantum gears from planar rotors	Phys. Rev. E 99 , 042202	arXiv:1810.13121
149	2019	S. Seah, S. Nimmrichter, V. Scarani	Non-equilibrium dynamics with finite-time repeated interactions	Phys. Rev. E 99 , 042103	arXiv:1809.04781
148	2019	G. Maslennikov, S. Ding, R. Hablutzel, J. Gan, A. Roulet, S. Nimmrichter, J. Dai, V. Scarani, D. Matsukevich	Quantum absorption refrigerator with trapped ions	Nature Comm. 10 , 202	arXiv:1702.08672
147	2018	X. Li, Y. Cai, Y. Han, Q. Wen, V. Scarani	Self-testing using only marginal information	Phys. Rev. A. 98 , 052331	arXiv:1808.02223
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145	2018	S. Seah, N. Nimmrichter, V. Scarani	Refrigeration beyond weak coupling and rotating wave approximation	Phys. Rev. E 98 , 012131	arXiv:1803.02002
144	2018	S. Seah, N. Nimmrichter, V. Scarani	Work production of quantum rotor engines	New. J. Phys. 20 , 043045	arXiv:1801.02820
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142	2017	S. Nimmrichter, J. Dai, A. Roulet, V. Scarani	Quantum and classical dynamics of a three-mode absorption refrigerator	Quantum 1 , 37	arXiv:1709.08353
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134	2016	S. Pironio, V. Scarani, T. Vidick	Focus on device independent quantum information [editorial for special issue]	New. J. Phys. 18 , 100202	
133	2016	A. Roulet, V. Scarani	Solving the scattering of N photons on a two-level atom without computation	New J. Phys. 18 , 093035	arXiv:1603.02804
132	2016	E.Y.Z. Tan, Y. Cai, V. Scarani	Measurement-dependent locality beyond independent and identically distributed runs	Phys. Rev. A 94 , 032117	arXiv:1605.09326
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