List of Publications

Last updated: 4 April, 2023

Among these [5,6,7] are my favourite.

1 Pre-prints

2022

- [1] Nov. 2022 (with Jamie Sikora and Thomas Van Himbeeck). 'Improving the security of device-independent weak coin flipping protocols'. In: Preparation. URL: https://www.overleaf.com/read/jhwnvgbntqkd.
- [2] **5th Jan. 2022** (with Alexandru Gheorghiu and Uttam Singh). 'Oracle Separations of Hybrid Quantum-Classical Circuits'. In: arXiv:2201.01904. DOI: 10.48550/arXiv.2201.01904.
- [3] **16th Mar. 2022** (with Xiao-Min Hu, Yi Xie, Ming-Zhong Ai, Kishor Bharti, Jie Zhang, Wei Wu, Ping-Xing Chen, Jin-Ming Cui, Bi-Heng Liu, Yun-Feng Huang, Chuan-Feng Li, Guang-Can Guo, Jérémie Roland, Adán Cabello and Leong-Chuan Kwek). 'Self-Testing of a Single Quantum System: Theory and Experiment'. In: arXiv:2203.09003. DOI: 10.48550/arXiv.2203.09003.
- [4] **29th Aug. 2022** (with Jérémie Roland, Chrysoula Vlachou and Stephan Weis). 'Solutions to Quantum Weak Coin Flipping'. In: Cryptology ePrint Archive, Paper 2022/1101. URL: https://eprint.iacr.org/2022/1101.

2 Proceedings

2023

[5] June 2023 (with Andrea Coladangelo, Matthew Coudron, Alexandru Gheorghiu, Uttam Singh and Hendrik Waldner). 'Quantum Depth in the Random Oracle Model'. In: Proceedings of the 55th Annual ACM SIGACT Symposium on Theory of Computing - STOC 2023. ACM Press. DOI: 10.1145/3564246.3585153.

2021

Mar. 2021 (with Jérémie Roland and Chrysoula Vlachou). 'Analytic Quantum Weak Coin Flipping Protocols with Arbitrarily Small Bias'. In: *Proceedings of the Thirty-Second Annual ACM-SIAM Symposium on Discrete Algorithms*. SODA '21. USA: Society for Industrial and Applied Mathematics, pp. 919–938. ISBN: 978-1-61197-646-5.

2019

[7] **June 2019** (with Jérémie Roland and Stephan Weis). 'Quantum weak coin flipping'. In: *Proceedings of the 51st Annual ACM SIGACT Symposium on Theory of Computing - STOC 2019.* ACM Press. DOI: 10.1145/3313276.3316306.

3 Articles

2020

[8] **July 2020** (with Kishor Bharti, Leong Chuan Kwek and Jérémie Roland). 'Uniqueness of All Fundamental Noncontextuality Inequalities'. In: *Physical Review Research* 2.3, p. 033010. ISSN: 2643-1564. DOI: 10. 1103/PhysRevResearch.2.033010. (Visited on 08/06/2022).

201

[9] **Feb. 2019** (with Kishor Bharti and Arvind). 'Revisiting the admissibility of non-contextual hidden variable models in quantum mechanics'. In: *Physics Letters A* 383.9, pp. 833–837. DOI: 10.1016/j.physleta. 2018.11.049.

2015

[10] **Dec. 2015** (with Ali Asadian). 'Proposal for a macroscopic test of local realism with phase-space measurements'. In: *Physical Review A* 92.6. DOI: 10.1103/physreva.92.062107.