

References

- [1] Yaiza Aragonés-Soria et al. “Minimising Statistical Errors in Calibration of Quantum-Gate Sets”. June 7, 2022. DOI: 10.48550/arXiv.2206.03417. arXiv: 2206.03417 [quant-ph]. URL: <http://arxiv.org/abs/2206.03417> (visited on 06/08/2022). Pre-published.
- [2] Pascal Cerfontaine, Tobias Hangleiter, and Hendrik Bluhm. “Filter Functions for Quantum Processes under Correlated Noise”. In: *Physical Review Letters* 127.17 (Oct. 18, 2021), p. 170403. ISSN: 0031-9007. DOI: 10.1103/PhysRevLett.127.170403. URL: <https://link.aps.org/doi/10.1103/PhysRevLett.127.170403>.
- [3] Thomas Descamps et al. “Millikelvin Confocal Microscope with Free-Space Access and High-Frequency Electrical Control”. In: *Review of Scientific Instruments* 95.8 (Aug. 9, 2024), p. 083706. ISSN: 0034-6748. DOI: 10.1063/5.0200889. URL: <https://doi.org/10.1063/5.0200889> (visited on 08/12/2024).
- [4] Thomas Descamps et al. “Semiconductor Membranes for Electrostatic Exciton Trapping in Optically Addressable Quantum Transport Devices”. In: *Physical Review Applied* 19.4 (Apr. 28, 2023), p. 044095. DOI: 10.1103/PhysRevApplied.19.044095. URL: <https://link.aps.org/doi/10.1103/PhysRevApplied.19.044095> (visited on 04/28/2023).
- [5] Denny Dütz et al. “Distributed Bragg Reflectors for Thermal Isolation of Semiconductor Spin Qubits”. In preparation.
- [6] Sarah Fleitmann et al. “Noise Reduction Methods for Charge Stability Diagrams of Double Quantum Dots”. In: *IEEE Transactions on Quantum Engineering* 3 (2022), pp. 1–19. ISSN: 2689-1808. DOI: 10.1109/TQE.2022.3165968.
- [7] Fabian Hader et al. “On Noise-Sensitive Automatic Tuning of Gate-Defined Sensor Dots”. In: *IEEE Transactions on Quantum Engineering* 4 (2023), pp. 1–18. ISSN: 2689-1808. DOI: 10.1109/TQE.2023.3255743.
- [8] Tobias Hangleiter, Pascal Cerfontaine, and Hendrik Bluhm. “Erratum: Filter-function Formalism and Software Package to Compute Quantum Processes of Gate Sequences for Classical Non-Markovian Noise [Phys. Rev. Research 3, 043047 (2021)]”. In: *Physical Review Research* 6.4 (Oct. 16, 2024), p. 049001. DOI: 10.1103/PhysRevResearch.6.049001. URL: <https://link.aps.org/doi/10.1103/PhysRevResearch.6.049001> (visited on 10/16/2024).
- [9] Tobias Hangleiter, Pascal Cerfontaine, and Hendrik Bluhm. “Filter-Function Formalism and Software Package to Compute Quantum Processes of Gate Sequences for Classical Non-Markovian Noise”. In: *Physical Review Research* 3.4 (Oct. 18, 2021), p. 043047. ISSN: 2643-1564. DOI: 10.1103/PhysRevResearch.3.043047. URL: <https://link.aps.org/doi/10.1103/PhysRevResearch.3.043047> (visited on 01/19/2022).

- [10] Isabel Nha Minh Le et al. “Analytic Filter-Function Derivatives for Quantum Optimal Control”. In: *Physical Review Applied* 17.2 (Feb. 2, 2022), p. 024006. DOI: 10.1103/PhysRevApplied.17.024006. URL: <https://link.aps.org/doi/10.1103/PhysRevApplied.17.024006> (visited on 02/03/2022).
- [11] Paul Surrey et al. “Data-Driven Qubit Characterization and Optimal Control Using Deep Learning”. In preparation.
- [12] Kui Wu et al. “An Efficient Singlet-Triplet Spin Qubit to Fiber Interface Assisted by a Photonic Crystal Cavity”. In: *The 25th European Conference on Integrated Optics*. Ed. by Jeremy Witzens et al. Cham: Springer Nature Switzerland, 2024, pp. 365–372. ISBN: 978-3-031-63378-2. DOI: 10.1007/978-3-031-63378-2_60.
- [13] Kui Wu et al. “Modeling an Efficient Singlet-Triplet-Spin-Qubit-to-Photon Interface Assisted by a Photonic Crystal Cavity”. In: *Physical Review Applied* 21.5 (May 24, 2024), p. 054052. DOI: 10.1103/PhysRevApplied.21.054052. URL: <https://link.aps.org/doi/10.1103/PhysRevApplied.21.054052> (visited on 08/21/2024).