

Publications

Year of Publication: 2022

- 1 Porcelli, A., and et al.. "Analysis methods used and planned for VIP-2." EPJ Web Conf.. 262 (2022). https://www.epj-conferences.org/articles/epjconf/abs/2022/06/epjconf_exa2021_01022/epjconf_exa2021_01022.html
- 2 De Paolis, L., and et al.. "Testing Pauli Exclusion Principle for electrons at the LNGS underground laboratory: The VIP-2 experiment." PoS PANIC 2021. 380 (2022). <https://pos.sissa.it/380/456>
- 3 Curceanu, Catalina, and et al.. "Underground tests of Quantum Mechanics at Gran Sasso." DISCRETE2020-2021. 405 (2022). <https://pos.sissa.it/405/005>
- 4 Napolitano, F., and e al.. "Testing the Pauli Exclusion Principle with the VIP-2 Experiment." Symmetry. 14,5 (2022). <https://www.mdpi.com/2073-8994/14/5/893>
- 5 Derakhshania, Maaneli, et al. "At the crossroad of the search for spontaneous radiation and the Orch OR consciousness theory." Physics of Life Reviews. 42 (2022). <https://www.sciencedirect.com/science/article/pii/S1571064522000197>
- 6 Rubino, Giulia, et al. "Inferring work by quantum superposing forward and time-reversal evolutions." Physical Review Research. 4.1 (2022). <https://journals.aps.org/prresearch/abstract/10.1103/PhysRevResearch.4.013208>
- 7 Renner, Martin J., and Časlav Brukner. "Computational Advantage from a Quantum Superposition of Qubit Gate Orders." Physical Review Letters. 128.23 (2022). <https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.128.230503>
- 8 SgROI, Pierpaolo, and Mauro Paternostro. "Modeling mechanical equilibration processes of closed quantum systems: A case study." Physical Review E. 105.1 (2022). <https://journals.aps.org/pre/abstract/10.1103/PhysRevE.105.014127>
- 9 Giannelli, Luigi, et al. "A tutorial on optimal control and reinforcement learning methods for quantum technologies." Physics Letters A. 434 (2022). <https://www.sciencedirect.com/science/article/pii/S0375960122001360>
- 10 Wu, Qiongyuan, et al. "Nonequilibrium Quantum Thermodynamics of a Particle Trapped in a Controllable Time-Varying Potential." PRX Quantum. 3.1 (2022). <https://journals.aps.org/prxquantum/abstract/10.1103/PRXQuantum.3.010322>
- 11 Rubino, Giulia, et al. "Experimental entanglement of temporal order." Quantum. 6 (2022). <https://quantum-journal.org/papers/q-2022-01-11-621/>
- 12 Giacomini, Flaminia, and Časlav Brukner. "Quantum superposition of spacetimes obeys Einstein's equivalence principle." AVS Quantum Science. 4.1 (2022). <https://avs.scitation.org/doi/10.1116/5.0070018>
- 13 Baumann, Veronika, et al. "Noncausal Page-Wootters circuits." Physical Review Research. 4.1 (2022). <https://journals.aps.org/prresearch/abstract/10.1103/PhysRevResearch.4.013180>
- 14 Carlesso, Matteo, et al. "Present status and future challenges of non-interferometric tests of collapse models." Nature Physics. 18 (2022). <https://www.nature.com/articles/s41567-021-01489-5>
- 15 Belenchia, Alessio, et al. "Quantum physics in space." Physics Reports. 951 (2022). <https://www.sciencedirect.com/science/article/pii/S0370157321004142?via%3Dihub>

Year of Publication: 2021

- 16 Barzanjeh, Shabir, et al. "Optomechanics for quantum technologies." Nature Physics. 18.1 (2021). <https://www.nature.com/articles/s41567-021-01402-0>
- 17 Suprano, Alessia, et al. "Enhanced detection techniques of orbital angular momentum states in the classical and quantum regimesAbstract." New Journal of Physics. <https://iopscience.iop.org/article/10.1088/1367-2630/ac0c53#Acknowledgments>

- 40 Rijavec, Simone, et al. "Decoherence effects in non-classicality tests of gravity." *New Journal of Physics*. 23.4 (2021). <https://iopscience.iop.org/article/10.10>
- 41 Carlesso, Matteo, Hamid Reza Naeij, and Angelo Bassi. "Perturbative algorithm for rotational decoherence." *Physical Review A*. 103.3 (2021). <https://journals.>
- 42 Gaona-Reyes, J. L., M. Carlesso, and A. Bassi. "Gravitational interaction through a feedback mechanism." *Physical Review D*. 103.5 (2021). <https://journals.aps.>
- 43 Guérin, Philippe Allard, et al. "A no-go theorem for the persistent reality of Wigner's friend's perceptionAbstract." *Communications Physics*. 4.1 (2021). <https://>
- 44 Streiter, Lucas F., Flaminia Giacomini, and Časlav Brukner. "Relativistic Bell Test within Quantum Reference Frames." *Physical Review Letters*. 126.23 (2021). <https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.126.230403>
- 45 Fadeev, Pavel, et al. "Ferromagnetic gyroscopes for tests of fundamental physics." *Quantum Science and Technology*. 6.2 (2021). <https://iopscience.iop.org/>
- 46 Asprea, L., et al. "Gravitational Decoherence and the Possibility of Its Interferometric Detection." *Physical Review Letters*. 126.20 (2021). <https://journals.aps.c>
- 47 Mulder, Jence T., et al. "Electrochemical p-Doping of CsPbBr₃ Perovskite NanocrystalsElectrochemical pDoping of CsPbBr₃ Perovskite Nanocrystals." *ACS* <https://pubs.acs.org/doi/10.1021/acseenergylett.1c00970>
- 48 Sgroi, Pierpaolo, Massimo G. Palma, and Mauro Paternostro. "Reinforcement Learning Approach to Nonequilibrium Quantum Thermodynamics." *Physical R* <https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.126.020601lltexthttps://link.aps.org/article/10.1103/PhysRevLett.126.020601>
- 49 Marchese, Marta Maria, et al. "An Optomechanical Platform for Quantum Hypothesis Testing for Collapse Models." *New Journal of Physics* (2021). <https://ioj>
- 50 Gasbarri, Giulio, et al. "Prospects for near-field interferometric tests of collapse models." *Physical Review A*. 103.2 (2021). <https://journals.aps.org/prl/abstr>
- 51 Adler, Stephen L., Angelo Bassi, and Matteo Carlesso. "The continuous spontaneous localization layering effect from a lattice perspective." *Journal of Physic* <https://iopscience.iop.org/article/10.1088/1751-8121/abdbc8>
- 52 Rubino, Giulia, et al. "Experimental quantum communication enhancement by superposing trajectories." *Physical Review Research*. 3.1 (2021). <https://journals.aps.org/prresearch/abstract/10.1103/PhysRevResearch.3.013093>

Year of Publication: 2020

- 53 Piscicchia, K., et al. "Testing the Pauli Exclusion Principle in the Cosmic Silence." *Acta Physica Polonica B*. 51.1 (2020). <https://www.actaphys.uj.edu.pl/fulltext?series=Reg&vol=51&page=97>
- 54 Milotti, Edoardo, et al. "Semi-Analytical Monte Carlo Method to Simulate the Signal of the VIP-2 Experiment." *Symmetry*. 13.1 (2020). <https://www.mdpi.com/2073-8994/13/1/6>
- 55 Milotti, E., et al. "New Concepts in Tests of the Pauli Exclusion Principle in Bulk Matter." *Acta Physica Polonica B*. 51.1 (2020). <http://www.actaphys.uj.edu.pl/findarticle?series=Reg&vol=51&page=91http://www.actaphys.uj.edu.pl/findarticle?series=Reg&vol=51&page=91>
- 56 Marton, J., et al. "VIP-2 - Testing spin-statistics for electrons with high sensitivity." *Journal of Physics: Conference Series*. 1468 (2020). <https://ui.adsabs.harvard.edu/abs/2020JPhCS1468a2230M/abstract>
- 57 Piscicchia, Kristian, et al. "Search for a remnant violation of the Pauli exclusion principle in a Roman lead target." *The European Physical Journal C*. 80.6 (2020). <https://link.springer.com/article/10.1140/epjc/s10052-020-8040-5#citeas>
- 58 Piscicchia, K, et al. "High precision test of the Pauli Exclusion Principle for electrons." *Journal of Physics: Conference Series*. 1586 (2020). <https://iopscience.iop.org/article/10.1088/1742-6596/1586/1/012016>
- 59 Piscicchia, K., et al. "High Sensitivity Quantum Mechanics Tests in the Cosmic Silence." *Acta Physica Polonica B Proceedings Supplement*. 14.1 (2020). <https://inspirehep.net/literature/1832888>
- 60 Piscicchia, Kristian, et al. "VIP-2 —High-Sensitivity Tests on the Pauli Exclusion Principle for Electrons." *Entropy*. 22.11 (2020). <https://www.mdpi.com/1099-4300/22/11/1195>
- 61 Ferialdi, Luca, and Angelo Bassi. "Continuous spontaneous localization reduction rate for rigid bodies." *Physical Review A*. 102.4 (2020). <https://journals.aps.org/prl/abstract/10.1103/PhysRevA.102.042213>
- 62 Brukner, Časlav. "Facts are relative." *Nature Physics*. 16.12 (2020). <https://www.nature.com/articles/s41567-020-0984-8#citeas>
- 63 Henderson, Laura J., et al. "Quantum Temporal Superposition: The Case of Quantum Field Theory." *Physical Review Letters*. 125.13 (2020).

<https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.125.131602>

64 Dimić, Aleksandra, et al. "Simulating Indefinite Causal Order With Rindler Observers." *Frontiers in Physics*. 8 (2020).

<https://www.frontiersin.org/articles/10.3389/fphy.2020.525333/full>

65 Donadi, Sandro, et al. "Underground test of gravity-related wave function collapse." *Nature Physics* (2020). <https://www.nature.com/articles/s41567-020-1008-4?fbclid=IwAR0EpSt7xuvOMD2DeCgsvW8k9bXu6-kIFvoz5gOn8qPXUMvQtO6Ev06Yaos#citeas>

66 Mancino, Luca, et al. "Nonequilibrium readiness and precision of Gaussian quantum thermometers." *Physical Review Research*. 2.3 (2020).

<https://journals.aps.org/prresearch/abstract/10.1103/PhysRevResearch.2.033498>

67 Solaro, Cyrille, et al. "Improved Isotope-Shift-Based Bounds on Bosons beyond the Standard Model through Measurements of the." *Physical Review Letters*. 125.12 (2020).

<https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.125.123003>

68 Kull, Ilya, Philippe Allard Guérin, and Frank Verstraete. "Uncertainty and trade-offs in quantum multiparameter estimation." *Journal of Physics A: Mathematical and Theoretical*. 53.24 (2020).

<https://iopscience.iop.org/article/10.1088/1751-8121/ab7f67>

69 Barbado, Luis C., Ana L. Báez-Camargo, and Ivette Fuentes. "Evolution of confined quantum scalar fields in curved spacetime. Part I." *The European Physical Journal C*. 80.8 (2020).

https://epjc.epj.org/articles/epjc/abs/2020/08/10052_2020_Article_8369/10052_2020_Article_8369.html

70 Barbado, Luis C., et al. "Unruh effect for detectors in superposition of accelerations." *Physical Review D*. 102.4 (2020).

<https://journals.aps.org/prd/abstract/10.1103/PhysRevD.102.045002>

71 Vinante, A., et al. "Narrowing the Parameter Space of Collapse Models with Ultracold Layered Force Sensors." *Physical Review Letters*. 125.10 (2020).

<https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.125.100404>

72 Rossi, Massimiliano, et al. "Experimental Assessment of Entropy Production in a Continuously Measured Mechanical Resonator." *Physical Review Letters*. 125.8 (2020).

<https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.125.080601>

73 De Paolis, L., et al. "The key role of the Silicon Drift Detectors in testing the Pauli Exclusion Principle for electrons: the VIP-2 experiment." *Journal of Physics: Conference Series*. 1548 (2020).

<https://iopscience.iop.org/article/10.1088/1742-6596/1548/1/012033>

74 Piscicchia, K., et al. "Searches for the Violation of Pauli Exclusion Principle at LNGS in VIP(-2) experiment." (2020).

<https://link.springer.com/article/10.1140/epjc/s10052-020-8040-5#citeas>

75 Adler, Stephen L., Angelo Bassi, and Luca Ferialdi. "Minimum measurement time: lower bound on the frequency cutoff for collapse models." *Journal of Physics A: Mathematical and Theoretical*. 53.21 (2020).

<https://iopscience.iop.org/article/10.1088/1751-8121/ab8673>

76 Mulder, Jence T., et al. "Developing Lattice Matched ZnMgSe Shells on InZnP Quantum Dots for Phosphor Applications." *ACS Applied Nano Materials*. 3.4 (2020).

<https://pubs.acs.org/doi/10.1021/acsnm.0c00583>

77 Baumann, V., and Č. Brukner. "Wigner's friend as a rational agent." (2020). https://link.springer.com/chapter/10.1007%2F978-3-030-34316-3_4

78 Castro-Ruiz, Esteban, et al. "Quantum clocks and the temporal localisability of events in the presence of gravitating quantum systems." *Nature Communications*. 11.1 (2020).

<https://www.nature.com/articles/s41467-020-16013-1#citeas>

79 Toroš, Marko, et al. "Revealing and concealing entanglement with noninertial motion." *Physical Review A*. 101.4 (2020).

<https://journals.aps.org/prl/abstract/10.1103/PhysRevA.101.043837>

80 Vinante, A., et al. "Ultralow Mechanical Damping with Meissner-Levitated Ferromagnetic Microparticles." *Physical Review Applied*. 13.6 (2020).

<https://journals.aps.org/prapplied/abstract/10.1103/PhysRevApplied.13.064027>

81 Marchese, Marta, et al. "A macrorealistic test in hybrid quantum optomechanics." *Journal of Physics B: Atomic, Molecular and Optical Physics*. 53.7 (2020).

<https://iopscience.iop.org/article/10.1088/1361-6455/ab6d18/meta>

82 Piscicchia, K., et al. "Testing the Pauli Exclusion Principle in the Cosmic Silence." *Acta Physica Polonica B*. 51.1 (2020).

<http://inspirehep.net/record/1774425>

83 Zheng, Di, et al. "Room temperature test of the continuous spontaneous localization model using a levitated micro-oscillator." *Physical Review Research*. 2.1 (2020).

<https://journals.aps.org/prresearch/abstract/10.1103/PhysRevResearch.2.013057>

- 84 Bavaresco, Jessica, et al. "Semi-device-independent certification of indefinite causal order." *Quantum*. 3 (2019). <https://quantum-journal.org/papers/q-2019-03-01-000000>
- 85 Curceanu, Catalina, et al. "Collapse models tested in the LNGS underground laboratories." *International Journal of Quantum Information*. 17:08 (2019). <https://www.worldscientific.com/doi/pdf/10.1142/S0219749919410119>
- 86 Giordani, Taira, et al. "Experimental Engineering of Arbitrary Qudit States with Discrete-Time Quantum Walks." *Physical Review Letters*. 122:2 (2019). <https://link.aps.org/doi/10.1103/PhysRevLett.122.020503><http://harvest.aps.org/v2/journals/articles/10.1103/PhysRevLett.122.020503/fulltext><https://link.aps.org/doi/10.1103/PhysRevLett.122.020503>
- 87 Marton, J., et al. "VIP2 in LNGS - Testing the Pauli Exclusion Principle for electrons with high sensitivity." *Journal of Physics: Conference Series*. 1275 (2019). <https://iopscience.iop.org/article/10.1088/1742-6596/1275/1/012028>
- 88 Piscicchia, Kristian, et al. "High Precision Test of the Pauli Exclusion Principle for Electrons." *Condensed Matter*. 4:2 (2019). <https://www.mdpi.com/2410-3896/4/2/45/pdf>
- 89 Barontini, Giovanni, and Mauro Paternostro. "Ultra-cold single-atom quantum heat engines." *New Journal of Physics*. 21:6 (2019). <https://iopscience.iop.org/article/10.1088/1742-6596/21/6/063001>
- 90 Brunelli, Matteo, and Oussama Houhou. "Dissipative Synthesis of Mechanical Fock-Like States." *Proceedings*. 12:1 (2019). <https://www.mdpi.com/2504-3900/12/1/25/pdf>
- 91 Milazzo, Nadia, et al. "Role of information backflow in the emergence of quantum Darwinism." *Physical Review A*. 100:1 (2019). <https://link.aps.org/doi/10.1103/PhysRevA.100.012101><http://harvest.aps.org/v2/journals/articles/10.1103/PhysRevA.100.012101/fulltext><https://link.aps.org/doi/10.1103/PhysRevA.100.012101>
- 92 Bernards, Fabian, et al. "Daemonic Ergotropy: Generalised Measurements and Multipartite Settings." *Entropy*. 21:8 (2019). <https://www.mdpi.com/1099-4300/21/8/771/pdf>
- 93 Zych, Magdalena, et al. "Bell's theorem for temporal order." *Nature Communications*. 10:1 (2019). <http://www.nature.com/articles/s41467-019-11579-x><http://www.nature.com/articles/s41467-019-11579-x.pdf><http://www.nature.com/articles/s41467-019-11579-x>
- 94 Vinante, Andrea. "Testing spontaneous collapse models with mechanical experiments." *Journal of Physics: Conference Series*. 1275 (2019). <https://iopscience.iop.org/article/10.1088/1742-6596/1275/1/012015>
- 95 Belenchia, Alessio, et al. "Talbot-Lau effect beyond the point-particle approximation." *Physical Review A*. 100:3 (2019). <https://journals.aps.org/pr/abstract/10.1103/PhysRevA.100.033801>
- 96 Setter, Ashley, Jamie Vovrosh, and Hendrik Ulbricht. "Characterization of non-linearities through mechanical squeezing in levitated optomechanics." *Applied Physics Letters*. 115:22 (2019). <https://aip.scitation.org/doi/full/10.1063/1.5116121>
- 97 Timberlake, Chris, et al. "Acceleration sensing with magnetically levitated oscillators above a superconductor." *Applied Physics Letters*. 115:22 (2019). <https://doi.org/10.1063/1.5116121>
- 98 Carlesso, M, et al. "Testing the gravitational field generated by a quantum superposition." *New Journal of Physics*. 21:9 (2019). <https://iopscience.iop.org/article/10.1088/1742-6596/21/9/093001>
- 99 Bullier, N. P., A. Pontin, and P. F. Barker. "Super-resolution imaging of a low frequency levitated oscillator." *Review of Scientific Instruments*. 90:9 (2019). <https://doi.org/10.1063/1.5116121>
- 100 Kull, Ilya, Philippe Allard Guérin, and Časlav Brukner. "A spacetime area law bound on quantum correlations." *npj Quantum Information*. 5:1 (2019). <https://www.nature.com/articles/s41534-019-0100-1>
- 101 Giacomini, Flaminia, Esteban Castro-Ruiz, and Časlav Brukner. "Relativistic Quantum Reference Frames: The Operational Meaning of Spin." *Physical Review Letters*. 123:090404 (2019). <https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.123.090404>
- 102 Ferialdi, Luca, et al. "Optimal control for feedback cooling in cavityless levitated optomechanics." *New Journal of Physics*. 21:7 (2019). <https://iopscience.iop.org/article/10.1088/1742-6596/21/7/073001>
- 103 Vinante, A., et al. "Testing collapse models with levitated nanoparticles: Detection challenge." *Physical Review A*. 100:1 (2019). <https://journals.aps.org/pr/abstract/10.1103/PhysRevA.100.012101>
- 104 Belenchia, Alessio, et al. "Information content of the gravitational field of a quantum superposition." *International Journal of Modern Physics D* (2019). <https://www.worldscientific.com/doi/abs/10.1142/S0218271819430016>
- 105 Belenchia, A, et al. "Tests of quantum gravity-induced non-locality: Hamiltonian formulation of a non-local harmonic oscillator." *Classical and Quantum Gravity*. 36:12 (2019). <https://iopscience.iop.org/article/10.1088/1361-6382/ab2c0a/meta>
- 106 Çakmak, Barış, et al. "Robust multipartite entanglement generation via a collision model." *Physical Review A*. 99:1 (2019). <https://www.scopus.com/record/display.url?url=https://www.sciencedirect.com/science/article/pii/S0557266619300016>
- 107 Abah, Obinna, and Mauro Paternostro. "Shortcut-to-adiabaticity Otto engine: A twist to finite-time thermodynamics." *Physical Review E*. 99:2 (2019). <https://doi.org/10.1103/PhysRevE.99.022101>

- 108 Puebla, R., et al. "Quantum simulation of multiphoton and nonlinear dissipative spin-boson models." *Physical Review A*. 99.3 (2019). <https://journals.aps.org>
- 109 Ottaviani, Carlo, et al. "Multipartite entanglement swapping and mechanical cluster states." *Physical Review A*. 99.3 (2019). <https://journals.aps.org/pr/ab>
- 110 Campbell, Steve, et al. "Collisional unfolding of quantum Darwinism." *Physical Review A*. 99.4 (2019). <https://www.scopus.com/record/display.uri?eid=2-s285064045468&origin=inward&txGid=fef9ce809ba0f80e49fda7460ff4609a>
- 111 Malouf, William T. B., et al. "Wigner entropy production and heat transport in linear quantum lattices." *Physical Review A*. 99.5 (2019). <https://www.scopus.c85065304617&origin=inward&txGid=bb5977c6635fe59bfec7a617811380c7>
- 112 Guarnieri, G., et al. "Quantum work statistics and resource theories: Bridging the gap through Rényi divergences." *Physical Review E*. 99.5 (2019). <https://journals.aps.org/pre/abstract/10.1103/PhysRevE.99.050101>
- 113 Curcuraci, L, S Bacchi, and A Bassi. "Unitary time-evolution in stochastic time-dependent Hilbert spaces." *Journal of Physics A: Mathematical and Theoretic* <https://iopscience.iop.org/article/10.1088/1751-8121/ab1427>
- 114 Feyles, Michele M., et al. "Dynamical role of quantum signatures in quantum thermometry." *Physical Review A*. 99.6 (2019). <https://journals.aps.org/pr/ab>
- 115 Puebla, Ricardo, et al. "Spin-Boson Model as A Simulator of Non-Markovian Multiphoton Jaynes-Cummings Models." *Symmetry*. 11.5 (2019). <https://www.n>
- 116 Adler, Stephen L., et al. "Testing continuous spontaneous localization with Fermi liquids." *Physical Review D*. 99.10 (2019). <https://journals.aps.org/prd/abst>
- 117 Guérin, Philippe Allard, et al. "Composition rules for quantum processes: a no-go theorem." *New Journal of Physics*. 21.1 (2019). <https://iopscience.iop.org/c>
- 118 Giacomini, Flaminia, Esteban Castro-Ruiz, and Āaslav Brukner. "Quantum mechanics and the covariance of physical laws in quantum reference frames." *N* <https://www.nature.com/articles/s41467-018-08155-0>
- 119 Timberlake, Chris, et al. "Static force characterization with Fano anti-resonance in levitated optomechanics." *Applied Physics Letters*. 114.2 (2019). <https://ai>
- 120 Āakmak, Barıř, et al. "Robust multipartite entanglement generation via a collision model." *Physical Review A*. 99.1 (2019). <https://link.aps.org/doi/10.1103/PhysRevA.99.012319><http://harvest.aps.org/v2/journals/articles/10.1103/PhysRevA.99.012319/fulltext><https://link.aps.org/art>

Year of Publication: 2018

- 121 Belenchia, Alessio, et al. "Quantum superposition of massive objects and the quantization of gravity." *Physical Review D*. 98.12 (2018). <https://journals.aps.org/prd/abstract/10.1103/PhysRevD.98.126009>
- 122 Rashid, Muddassar, et al. "Precession Motion in Levitated Optomechanics." *Physical Review Letters*. 121.25 (2018). <https://journals.aps.org/prl/abstract/10>
- 123 Toroř, Marko, Muddassar Rashid, and Hendrik Ulbricht. "Detection of anisotropic particles in levitated optomechanics." *Physical Review A*. 98.5 (2018). <https://journals.aps.org/pr/abstract/10.1103/PhysRevA.98.053803>
- 124 Winstone, George, et al. "Direct measurement of the electrostatic image force of a levitated charged nanoparticle close to a surface." *Physical Review A*. 98.5 (2018). <https://journals.aps.org/pr/abstract/10.1103/PhysRevA.98.053831>
- 125 Krisnanda, Tanjung, et al. "Probing quantum features of photosynthetic organisms." *npj Quantum Information*. 4.1 (2018). <https://www.nature.com/articles/>
- 126 Di Stefano, P. G., et al. "Nonequilibrium thermodynamics of continuously measured quantum systems: A circuit QED implementation." *Physical Review B*. 98.14 (2018). <https://journals.aps.org/prb/abstract/10.1103/PhysRevB.98.144514>
- 127 Brunelli, M., et al. "Experimental Determination of Irreversible Entropy Production in out-of-Equilibrium Mesoscopic Quantum Systems." *Physical Review Letters*. 121.16 (2018). <https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.121.160604>
- 128 Mishra, Ruchira, Andrea Vinante, and Tejinder P. Singh. "Testing spontaneous collapse through bulk heating experiments: An estimate of the background r" <https://journals.aps.org/pr/abstract/10.1103/PhysRevA.98.052121>
- 129 Guérin, Philippe Allard, and Āaslav Brukner. "Observer-dependent locality of quantum events." *New Journal of Physics*. 20.10 (2018). <http://iopscience.iop.c>
- 130 Mancino, Luca, et al. "Information-reality complementarity in photonic weak measurements." *Physical Review A*. 97.6 (2018). <https://journals.aps.org/pr/c>
- 131 Gasbarri, G., and L. Ferialdi. "Stochastic unravelings of non-Markovian completely positive and trace-preserving maps." *Physical Review A*. 98.4 (2018). <https://journals.aps.org/pr/abstract/10.1103/PhysRevA.98.042111>
- 132 Ciampini, Mario A., et al. "Experimental signature of quantum Darwinism in photonic cluster states." *Physical Review A*. 98.2 (2018). <https://journals.aps.org/>

133 Nobakht, J., et al. "Unitary unraveling for the dissipative continuous spontaneous localization model: Application to optomechanical experiments." *Physica*
<https://link.aps.org/doi/10.1103/PhysRevA.98.042109>

134 Carlesso, M., L. Feriardi, and Angelo Bassi. "Colored collapse models from the non-interferometric perspective." *The European Physical Journal D*. 72.9 (2018).
<https://link.springer.com/article/10.1140%2Fepjd%2Fe2018-90248-x>

135 Carlesso, M., Andrea Vinante, and Angelo Bassi. "Multilayer test masses to enhance the collapse noise." *Physical Review A*. 98.2 (2018).
<https://link.aps.org/doi/10.1103/PhysRevA.98.022122><http://harvest.aps.org/v2/journals/articles/10.1103/PhysRevA.98.022122/fulltext><https://link.aps.org/doi/10.1103/PhysRevA.98.022122>

136 Carlesso, M., et al. "Non-interferometric test of the continuous spontaneous localization model based on rotational optomechanics." *New Journal of Physics*
<http://iopscience.iop.org/article/10.1088/1367-2630/aad863/meta>

137 Curceanu, Catalina, and Angelo Bassi. "A New FET Collaborative Project: Testing the Large-Scale Limit of Quantum Mechanics—TEQ." *Nuclear Physics News*
<http://www.nupecc.org/npn/npn281.pdf>

138 Adler, Stephen L., and Andrea Vinante. "Bulk heating effects as tests for collapse models." *Physical Review A*. 97.5 (2018).
<https://link.aps.org/doi/10.1103/PhysRevA.97.052119><http://harvest.aps.org/v2/journals/articles/10.1103/PhysRevA.97.052119/fulltext><https://link.aps.org/doi/10.1103/PhysRevA.97.052119>

139 Santos, Jader P., et al. "Irreversibility at zero temperature from the perspective of the environment." *Physical Review A*. 97.5 (2018).
<https://link.aps.org/doi/10.1103/PhysRevA.97.050101><http://harvest.aps.org/v2/journals/articles/10.1103/PhysRevA.97.050101/fulltext><https://link.aps.org/doi/10.1103/PhysRevA.97.050101>

140 Pollock, Felix A., et al. "Operational Markov Condition for Quantum Processes." *Physical Review Letters*. 120.4 (2018).
<https://link.aps.org/doi/10.1103/PhysRevLett.120.040405><http://harvest.aps.org/v2/journals/articles/10.1103/PhysRevLett.120.040405/fulltext><https://link.aps.org/doi/10.1103/PhysRevLett.120.040405>

141 Pollock, Felix A., et al. "Non-Markovian quantum processes: Complete framework and efficient characterization." *Physical Review A*. 97.1 (2018).
<https://link.aps.org/doi/10.1103/PhysRevA.97.012127><http://harvest.aps.org/v2/journals/articles/10.1103/PhysRevA.97.012127/fulltext><https://link.aps.org/doi/10.1103/PhysRevA.97.012127>

142 Setter, Ashley, et al. "Real-time Kalman filter: Cooling of an optically levitated nanoparticle." *Physical Review A*. 97.3 (2018).
<https://link.aps.org/doi/10.1103/PhysRevA.97.033822><http://harvest.aps.org/v2/journals/articles/10.1103/PhysRevA.97.033822/fulltext><https://link.aps.org/doi/10.1103/PhysRevA.97.033822>