

# Scientific Publications

## Anton Zeilinger

2017

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511. A. Zeilinger, [\*Light for the quantum. Entangled photons and their applications: a very personal perspective\*](#), Physica Scripta **92**, 072501 (2017).
510. J. Handsteiner, A. S. Friedman, D. Rauch, J. Gallicchio, B. Liu, H. Hosp, J. Kofler, D. Bricher, M. Fink, C. Leung, A. Mark, H. T. Nguyen, I. Sanders, F. Steinlechner, R. Ursin, S. Wengerowsky, A. H. Guth, D. I. Kaiser, T. Scheidl, A. Zeilinger, [\*Cosmic Bell Test: Measurement Settings from Milky Way Stars\*](#), Phys. Rev. Lett. **118**, 060401 (2017); highlighted as a PRL Editor's Suggestion.
509. A. Hochrainer, M. Lahiri, R. Lapkiewicz, G. B. Lemos, A. Zeilinger, [\*Interference Fringes Controlled by Non-Interfering Photons\*](#), Optica **4**, 341-344 (2017).
508. M. Krenn, A. Hochrainer, M. Lahiri, A. Zeilinger, [\*Entanglement by Path Identity\*](#), Phys. Rev. Lett. **118**, 080401 (2017); with [\*Erratum\*](#).
507. A. Hochrainer, M. Lahiri, R. Lapkiewicz, G. Barreto Lemos, A. Zeilinger, [\*Quantifying the Momentum Correlation between Two Light Beams by Detecting One\*](#), Proc. Natl. Acad. Sci. U. S. A. **114**, 1508–1511 (2017).
506. M. Lahiri, A. Hochrainer, R. Lapkiewicz, G. Barreto Lemos, A. Zeilinger, [\*Partial Polarization by Quantum Distinguishability\*](#), Phys. Rev. A **95**, 033816 (2017).
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504. M. Krenn, M. Malik, M. Erhard, A. Zeilinger, [\*Orbital angular momentum of photons and the entanglement of Laguerre-Gaussian modes\*](#), Phil. Trans. R. Soc. A **375**, 20150442 (2017).
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502. A. Zeilinger, [\*New Dimensions for Entangled Photons: The Role of Information\*](#), in: "Quantum [Un]Speakables II. Half a Century of Bell's Theorem", R. Bertlmann and A. Zeilinger (eds.): Springer, Cham, 503-518 (2017).

501. S. Alipour, M. Krenn, A. Zeilinger, [\*Quantum gate description for induced coherence without induced emission and related phenomena\*](#), arXiv:1707.05855 [quant-ph] (2017).
500. F. Wang, M. Erhard, A. Babazadeh, M. Malik, M. Krenn, A. Zeilinger, [\*Generation of the Complete Four-dimensional Bell Basis\*](#), arXiv:1707.05760 [quant-ph] (2017).
499. A. A. Melnikov, H. Poulsen Nautrup, M. Krenn, V. Dunjko, M. Tiersch, A. Zeilinger, H. J. Briegel, [\*Active learning machine learns to create new quantum experiments\*](#), arXiv:1706.00868 [quant-ph] (2017).
498. M. Krenn, X. Gu, A. Zeilinger, [\*Quantum Experiments and Graphs: Multiparty States as coherent superpositions of Perfect Matchings\*](#), arXiv:1702.07299 [quant-ph] (2017).
497. A. Babazadeh, M. Erhard, F. Wang, M. Malik, R. Nouroozi, M. Krenn, A. Zeilinger, [\*High-Dimensional Single-Photon Quantum Gates: Concepts and Experiments\*](#), arXiv:1705.06646 [quant-ph] (2017).

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