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EDUCATION

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FELLOWSHIPS AND HONORS 2016 - 2021 National Science Foundation Graduate Research Fellowship 2016 - 2017 Theory Fellowship, UC Berkeley Department of Physics

Publications

*: Co-first authors.

- [1] **Thomas Schuster***, Bryce Kobrin*, Ping Gao, Iris Cong, Emil Khabiboulline, Norbert Linke, Chris Monroe, Mikhail D. Lukin, Beni Yoshida, and Norman Y. Yao, Many-body quantum teleportation via operator spreading in the traversable wormhole protocol. Forthcoming (2021).
- [2] Machiel S. Blok*, Vinay V. Ramasesh*, Thomas Schuster, Kevin O'Brien, John M. Kreikebaum, Dar Dahlen, Alexis Morvan, Beni Yoshida, Norman Y. Yao, and Irfan Siddiqi Quantum Information Scrambling in a Superconducting Quartit Processor. arXiv:2003.03307 (2020).
- [3] Jiho Noh*, Thomas Schuster*, Thomas Iadecola, Sheng Huang, Mohan Wang, Kevin P. Chen, Claudio Chamon, and Mikael C. Rechstman Braiding photonic topological zero modes. Nature Physics 16, 989-993 (2020).
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- [4] Thomas Schuster, Snir Gazit, Joel E. Moore, and Norman Y. Yao, Floquet Hopf Insulators. Phys. Rev. Lett., 123 266803 (2019).
- [5] Kevin Landsman, Caroline Figgatt, Thomas Schuster, Norbert M. Linke, Beni Yoshida, Norman Y. Yao, and Chris Monroe, Verified quantum information scrambling. Nature 567, 61-65 (2019).
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- [7] Thomas Schuster, Felix Flicker, Ming Li, Svetlana Kotochigova, Joel E. Moore, Jun Ye, and Norman Y. Yao, Realizing Hopf Insulators in Dipolar Spin Systems. arXiv:1901.08597 (2019).

- [8] Rupert A. Croft, Peter E. Freeman, Thomas S. Schuster, and Chad M. Schafer, Prediction of galaxy ellipticities and reduction of shape noise in cosmic shear measurements. Monthly Notices of the Royal Astronomical Society, 469 4422-4427 (2017)
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 See also the Phys.org Feature by Lisa Zyga, Physicists propose method for braiding light.
- [10] Thomas Schuster, Thomas Iadecola, Claudio Chamon, Roman Jackiw, and So-Young Pi, Dissipationless conductance in a topological coaxial cable. Phys. Rev. B, 94 115110 (2016).

Presentations

- [1] Floquet Hopf Insulators. Invited talk. Technion Israel Institute of Technology, Condensed Matter Seminar, Haifa, Israel, 2019
- [2] Unitary Designs for Continuous Variable Systems. Contributed talk. APS March Meeting, Boston, USA, 2019
- [3] Distinguishing Information Scrambling from Decoherence in a Trapped Ion Quantum Simulator. Contributed poster. Annual Meeting of the APS Division of Atomic, Molecular, Optical Physics, Fort Lauderdale, USA, 2018
- [4] Floquet Hopf Insulator in Dipolar Spin Systems. Contributed talk. APS March Meeting, Los Angeles, USA, 2018
- [5] DNA Unknotting on the Cubic Lattice: Modeling the Enzymatic Action of Type II Topoisomerases. Contributed poster. Biology and Mathematics in the Bay Area Meeting, Berkeley, USA, 2012