Lorenzo Leone

PUBLICATIONS

1. Lorenzo Leone, Salvatore F.E. Oliviero, Alioscia Hamma
   Stabilizer Rényi entropy
   Physical Review Letters 128, 050402(2022)

2. Salvatore F.E. Oliviero, Lorenzo Leone, Alioscia Hamma and Seth Lloyd
   Measuring Magic on a quantum processor
   npj Quantum Information 8, 148 (2022)

3. Lorenzo Leone, Salvatore F.E. Oliviero, You Zhou, Alioscia Hamma
   Quantum Chaos is Quantum
   Quantum, volume 5, page 453 (2021)

4. Salvatore F.E. Oliviero, Lorenzo Leone, You Zhou, Alioscia Hamma
   Stability of topological purity under random local unitaries
   SciPost Phys. 12, 096 (2022)

5. Salvatore F.E. Oliviero, Lorenzo Leone, Alioscia Hamma
   Transitions in entanglement complexity in random quantum circuits by measurements
   Physics Letters A, 127721(2021)

6. Salvatore F.E. Oliviero, Lorenzo Leone, Francesco Caravelli,Alioscia Hamma
   Random Matrix Theory of the Isospectral Twirling
   SciPost Phys. 10, 076 (2021)

7. Lorenzo Leone, Salvatore F.E. Oliviero, Alioscia Hamma
   Isospectral twirling and quantum chaos
   Entropy 2021, 23(8), 1073(2021)

8. Salvatore F.E. Oliviero, Lorenzo Leone, Alioscia Hamma
   Magic-state resource theory for the ground state of the transverse field Ising model
   Physical Review A 106, 042426

9. Lorenzo Leone, Salvatore F.E. Oliviero, Stefano Piemontese, Sarah True, Alioscia Hamma
   Retrieving Information from a black hole using quantum machine learning
   Phys. Rev. A 106, 062434

10. Lorenzo Leone, Salvatore F.E. Oliviero, Alioscia Hamma
    Nonstabilizerness determining the hardness of direct fidelity estimation
    Accepted in Phys. Rev. A

11. Max Kurkov, Lorenzo Leone
    Remark on the synergy between the heat kernel techniques and the parity anomaly
    International Journal of Geometric Methods in Modern Physics, 17, 2050002-679(2020)

PREPRINTS

12. Lorenzo Leone, Salvatore F.E. Oliviero, Seth Lloyd, Alioscia Hamma
    Learning efficient decoders for quasi-chaotic quantum scramblers
    `https://doi.org/10.48550/arXiv.2212.11338`

13. Salvatore F.E. Oliviero, Lorenzo Leone, Seth Lloyd, Alioscia Hamma
    Black hole complexity, unscrambling and stabilizer thermal machines
    `https://doi.org/10.48550/arXiv.2212.11337`

14. Lorenzo Leone, Salvatore F.E. Oliviero, Gianluca Esposito, Alioscia Hamma
    Phase transition in Stabilizer Entropy and efficient purity estimation
    https://doi.org/10.48550/arXiv.2302.07895

15. Lorenzo Leone, Salvatore F.E. Oliviero, Lukasz Cincio, Marco Cerezo
    On the practical usefulness of the Hardware Efficient Ansatz
    https://doi.org/10.48550/arXiv.2211.01477