

Revisão do arXiv 2024 (2º semestre)

Coloque o link pro abstract do artigo escolhido!

Próxima Reunião (23/09)

- **Rafa**
[Phys. Rev. Lett. 132, 190201 \(2024\) - Bell Nonlocality in Classical Systems Coexisting with Other System Types \(aps.org\)](#)
[2409.11792 \(arxiv.org\)](#)
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Revisão do arXiv 2024 (1º semestre)

Coloque o link pro abstract do artigo escolhido!

Reunião do dia 19/02:

Bárbara:

- Test of the physical significance of Bell nonlocality
<https://arxiv.org/pdf/2402.00801.pdf>

Patrick:

- Memory in quantum processes with indefinite time direction and causal order
<https://arxiv.org/abs/2402.05517>
- Resources of the Quantum World
<https://arxiv.org/abs/2402.05474>

Reunião do dia 26/02:

Naim:

- Quantum synchronization with correlated baths:
<https://iopscience.iop.org/article/10.1088/1674-1056/ad0bef/meta>
- Quantum switch as a thermodynamic resource in the context of passive states:
<https://arxiv.org/abs/2402.10730>
- Maximum Entropy Principle as Postulate of Quantum Mechanics:
<https://arxiv.org/abs/2402.13080> <https://arxiv.org/abs/2311.04893>
- Thermodynamics of hybrid quantum rotor devices:
<https://arxiv.org/abs/2304.08122>
- Quantum homogenization in non-Markovian collisional model:
<https://arxiv.org/abs/2201.08412>

Reunião do dia 04/03:

- (Rafa) Generalized Kochen-Specker theorem for finite non-deterministic outcome assignments: <https://arxiv.org/abs/2402.09186>

Reunião do dia 11/03:

- (Rafa) PDQMA = DQMA = NEXP: QMA With Hidden Variables and Non-collapsing Measurements: <https://arxiv.org/abs/2403.02543>

- (Naim) A thermodynamic approach to quantifying incompatible instruments: <https://arxiv.org/abs/2402.13080>
- (Naim) Thinking twice inside the box: is Wigner's friend really quantum? <https://arxiv.org/abs/2402.08727>

Reunião do dia 18/03

- **Bárbara:** Revealing hidden physical nonclassicality with nonnegative polynomials <https://arxiv.org/pdf/2403.09807.pdf>

Reunião do dia 01/04(?)

- **Rafa:** Does ignorance of the whole imply ignorance of the parts? Large violations of noncontextuality in quantum theory <https://arxiv.org/abs/1011.6448>
- **Naim:** Entanglement-based quantum information technology https://opg.optica.org/directpdfaccess/a02e1ca3-f97a-4718-b2b1016d6358c523_548484/aop-16-1-60.pdf?da=1&id=548484&seq=0&mobile=no
Quasiprobabilities in quantum thermodynamics and many-body physics: A tutorial <https://arxiv.org/pdf/2403.17138v1.pdf>

Reunião do dia 06/05

- **Naim:** Quasiprobabilities in quantum thermodynamics and many-body systems: A tutorial <https://arxiv.org/abs/2403.17138>
Classifying two-body Hamiltonians for Quantum Darwinism <https://arxiv.org/pdf/2405.00805>
Stochastic Thermodynamics at the Quantum-Classical Boundary <https://arxiv.org/abs/2404.10118>
- **Daniilo:** Fundamental limits on anomalous energy flows in correlated quantum systems <https://arxiv.org/pdf/2307.03828>
- **Luis:** Heat as a witness of quantum properties [\[2408.06418\] Heat as a witness of quantum properties \(arxiv.org\)](https://arxiv.org/abs/2408.06418)

Reunião do dia 17/09

- **Naim:** Evidence for simple arrow of time functions in closed chaotic quantum systems <https://www.arxiv.org/abs/2408.08007>
Holevo bound and objectivity in the spin-boson model <https://arxiv.org/abs/2409.01186>
 - Stochastic thermodynamics of Fisher information <https://arxiv.org/abs/2405.15685>
- **Luis:** Quantum thermodynamics as a gauge theory [2409.07676 \(arxiv.org\)](https://arxiv.org/abs/2409.07676)

Rafa:

[2407.10941 \(arxiv.org\)](https://arxiv.org/abs/2407.10941)

[Phys. Rev. Lett. 117, 120501 \(2016\) - Grover Search and the No-Signaling Principle \(aps.org\)](#)

<https://arxiv.org/pdf/2409.01706>

[2409.03001 \(arxiv.org\)](https://arxiv.org/abs/2409.03001)

[2409.04566 \(arxiv.org\)](https://arxiv.org/abs/2409.04566)

[2409.05491 \(arxiv.org\)](https://arxiv.org/abs/2409.05491)

Reunião do dia 15/10

Felipe:

. Quantum Bayes' rule and Petz transpose map from the minimal change principle: <https://arxiv.org/abs/2410.00319>