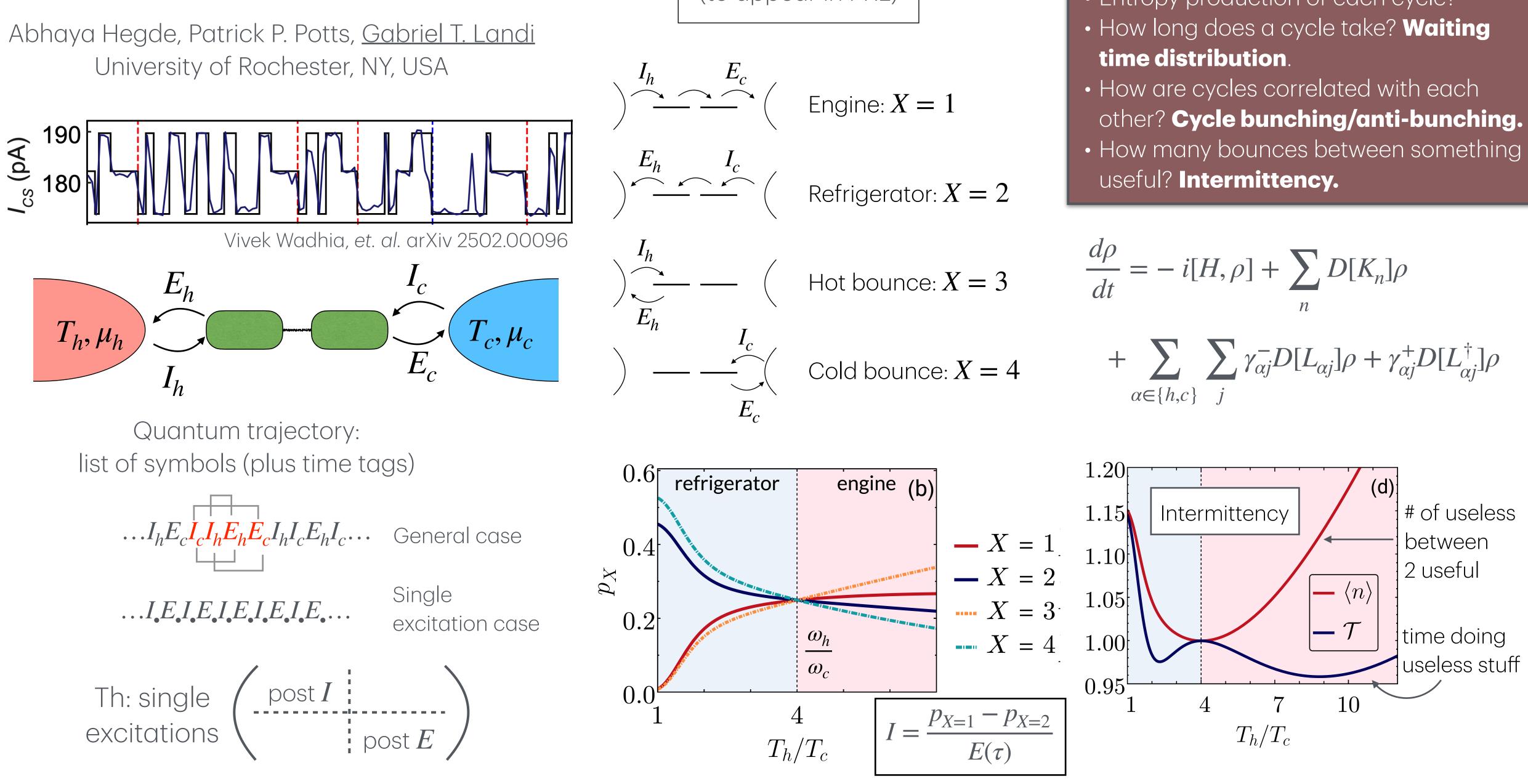
Time-resolved Stochastic Dynamics of Quantum Thermal Machines



arXiv:2408.00694 (to appear in PRL)

$$E_c$$

Engine:
$$X = 1$$

$$I_c$$

Hot bounce:
$$X = 3$$

$$I_c$$

Cold bounce:
$$X = 4$$

New questions:

- Probability cycle is of type X?
- Entropy production of each cycle?

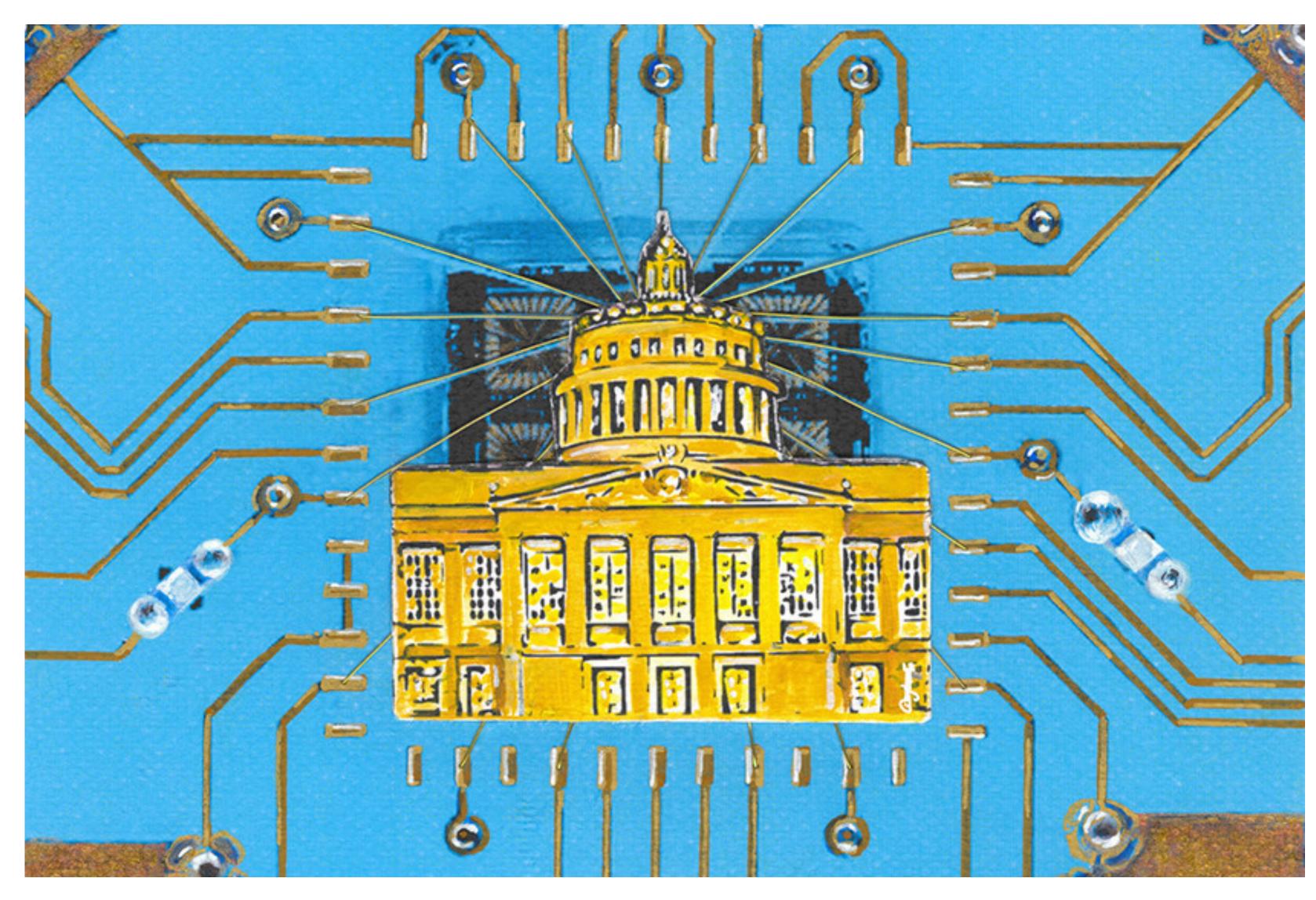
$$\frac{d\rho}{dt} = -i[H,\rho] + \sum_{n} D[K_{n}]\rho$$

$$+\sum_{\alpha\in\{h,c\}}\sum_{j}\gamma_{\alpha j}^{-}D[L_{\alpha j}]\rho+\gamma_{\alpha j}^{+}D[I]$$





12th Rochester Conference on Coherence and Quantum Science (CQS-12)





UNIVERSITY of ROCHESTER

June 23-27, 2025 Rochester NY

Founded by Prof. Mandel & Prof. Wolf

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