

# Recent reading

## Theory

[1]

Theory text with a citation [1] with an equation  $E = mc^2$ .

These authors claim that maximizing the flux results in minimizes the free energy wells of intermediate metastable states.

The forward rate constants from state  $i$  to  $j$  are  $k_{ij}$  and these are reversible transitions. The rate is  $k_{ij}^+ P_i$ , where  $P_i$  is the probability in bin (or state)  $i$ . There is a total free energy budget  $\sigma_{\text{tot}}$  that describes the free energy difference across the cycle.

## References

1. Brown AI, Sivak DA. 2017 Allocating dissipation across a molecular machine cycle to maximize flux. See <https://arxiv.org/abs/1703.05283v3>.