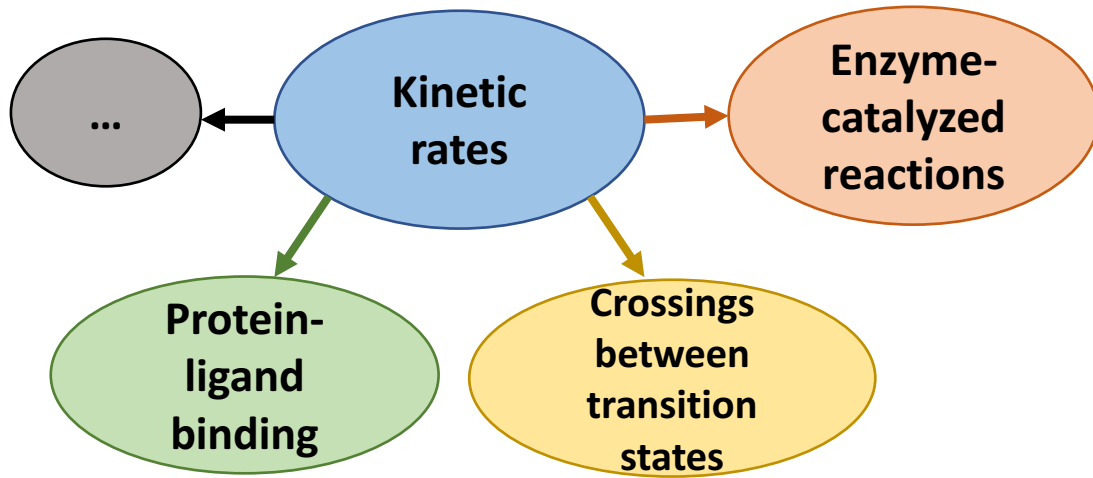
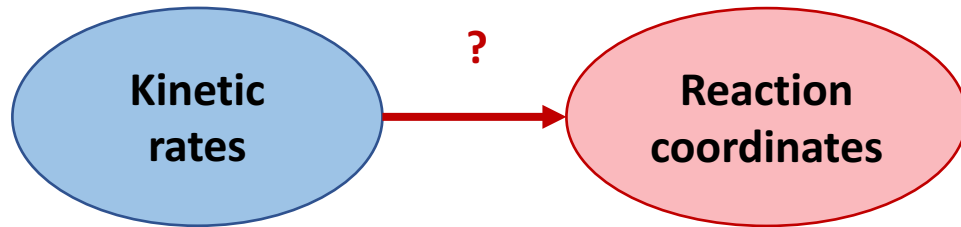


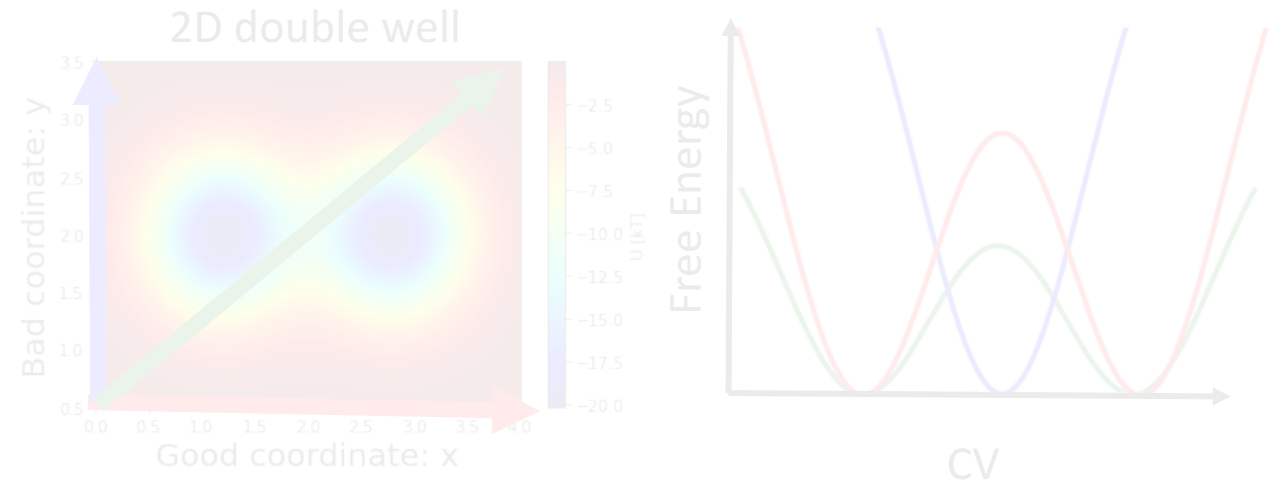
Collective variable optimization based on kinetic rates



But what about reaction coordinates?

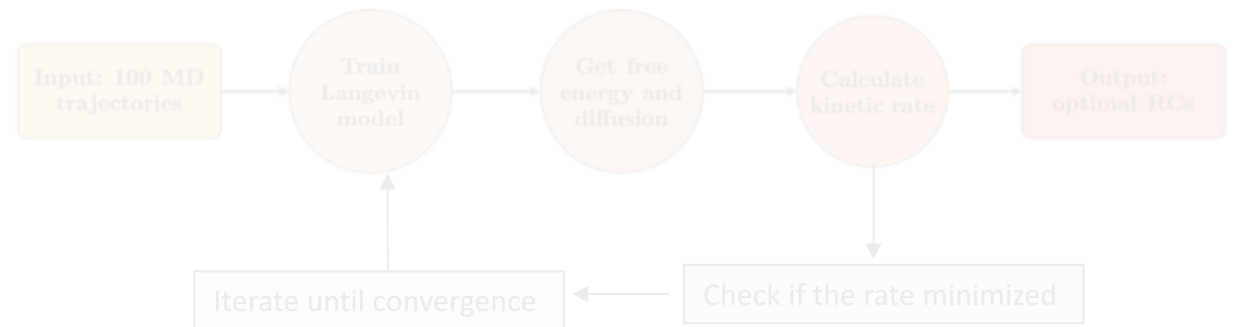


Optimal reaction coordinates yield minimal kinetic rates



Proposed method:

Minimize kinetic rate to obtain optimal RC



W. Zhang, C. Hartmann, and C. Schütte. *Faraday discussions* (2016)

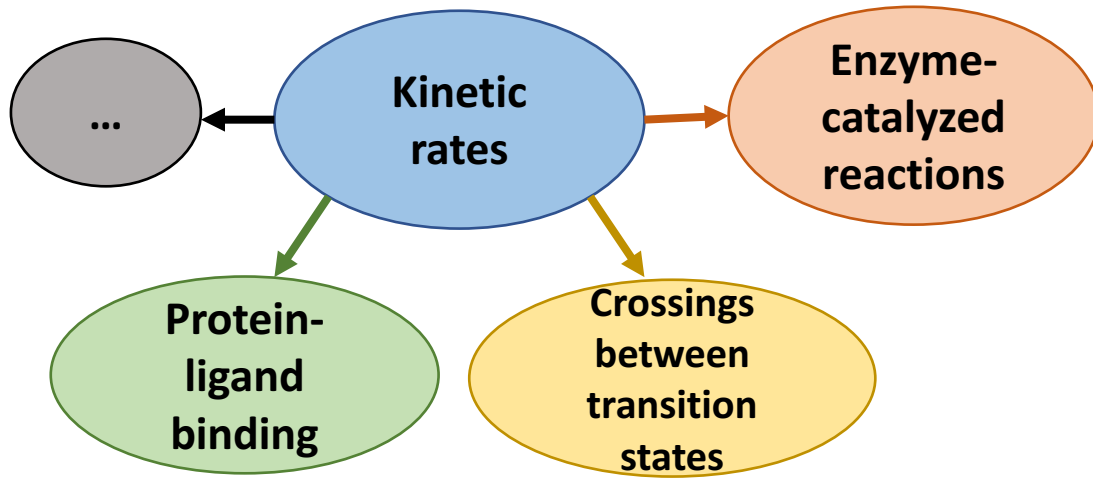
A. Berezhkovskii and A. Szabo. *The Journal of chemical physics* 122.1 (2005).

L. Mouaffac, Palacio-Rodriguez & Pietrucci (2023). *arXiv preprint*

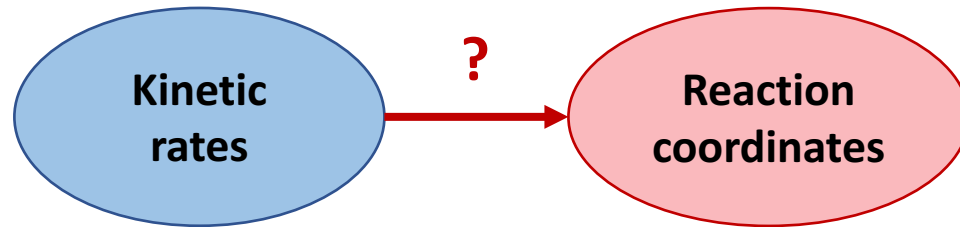
arXiv:2302.12497

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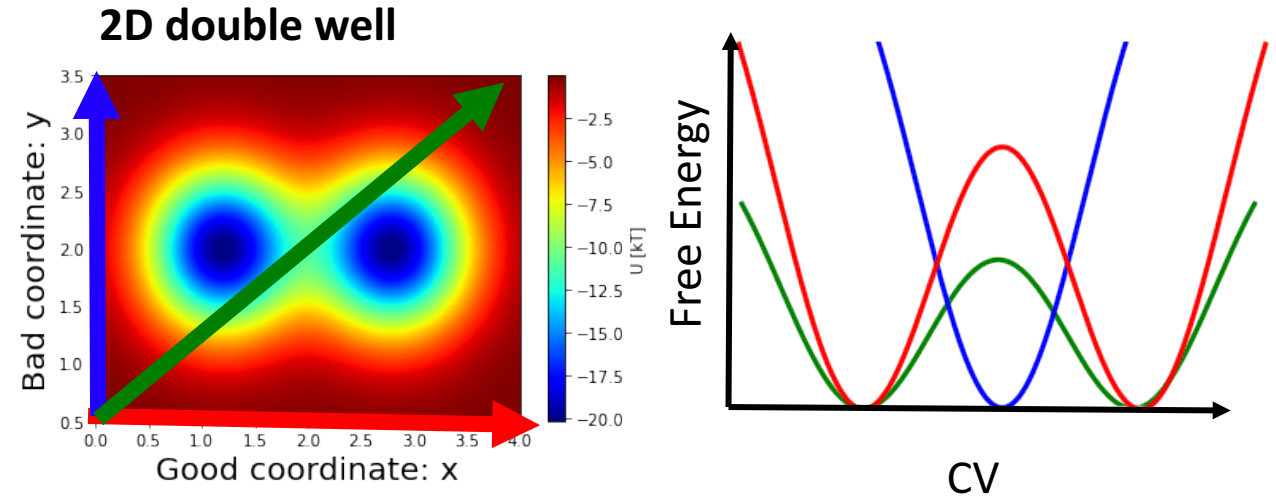
Collective variable optimization based on kinetic rates



But what about reaction coordinates?

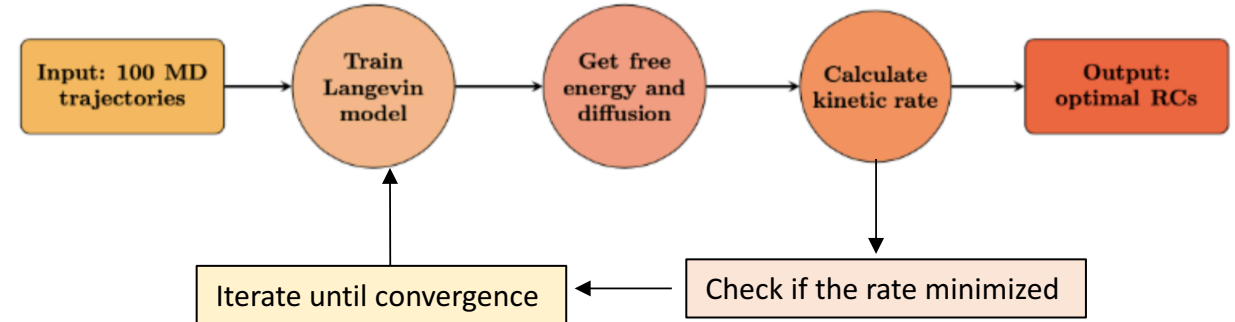


Optimal reaction coordinates yield minimal kinetic rates



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L. Mouaffac, K. Palacio-Rodriguez & F. Pietrucci, *arXiv preprint* (2023)

K. Palacio-Rodriguez & F. Pietrucci, *Journal of Chemical Theory and Computation*, (2022)